

JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

NORTH BROS. MFG. CO.

Manufacturers of

"YANKEE" TOOLS
FLUTING MACHINES

FREEZERS
MACHINE FREEZERS

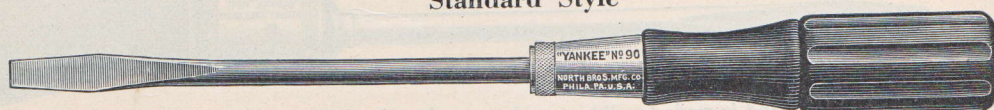
ICE BREAKERS
CHRISTMAS TREE
HOLDERS

"YANKEE" Plain SCREW DRIVERS

They are strong, durable, well balanced tools, of the same high quality of materials and workmanship as other "Yankee" Tools, which to-day are without equal. The fastening of blade and handle is such that they cannot be loosened in use, or in even the usual abuse. The blades and ferrules are finely polished, the handle of hard wood finished in dull dead black, making a handsome appearance as well as being durable. Like all "Yankee" Tools, each is thoroughly tested and guaranteed in every particular as to quality.

Standard Style

No. 90

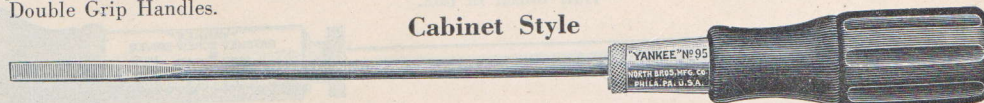


Sizes	1 1/2	2	3	4	5	6	7	8	9	10	12	15	18*	24*	30*	Inches
Per Dozen	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Net Weight per doz.	1	1 1/8	1 1/4	2 1/2	3 3/4	4	5 3/4	6	6 1/4	8 1/2	9 3/4	11 1/4	17 1/2	21 1/2	26	Lbs

* Have Double Grip Handles.

Cabinet Style

No. 95

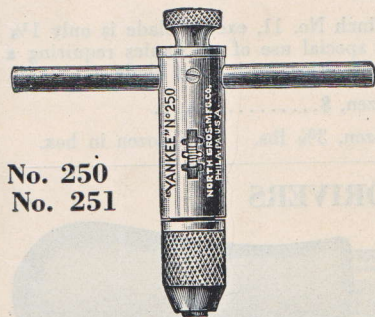


Sizes	2 1/2	3 1/2	4 1/2	5 1/2	6 1/2	7 1/2	8 1/2	9 1/2	10 1/2	12 1/2	15 1/2	Inches
Per Dozen	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
Net Weight per doz.	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	3 1/4	Lbs.

Packed One-Half Dozen in strong paper box.

"YANKEE" Ratchet TAP WRENCH

Right and Left Hand and Rigid



No. 250
No. 251

The Distinguishing Features are its adaptability, convenience, and efficiency for working in close quarters, corners, and inaccessible places.

The Ratchet Mechanism is the same construction used in other "Yankee" Tools. With the shifter at top, it is left hand; at bottom, right hand; and in center, rigid, as ordinary Tap Wrench.

The Crossbar is held central by a friction device and of ample leverage for even larger taps than the chuck will hold.

A Knurled Thumb Piece at top of Wrench affords a ready means of starting in and backing out the tap quickly. In the end of this thumb piece is a countersunk hole to use Tap Wrench on lathe center when desired, for holding small drills, etc.

The Cross Arm can be readily withdrawn, so that little room is taken up in tool chest or drawer.

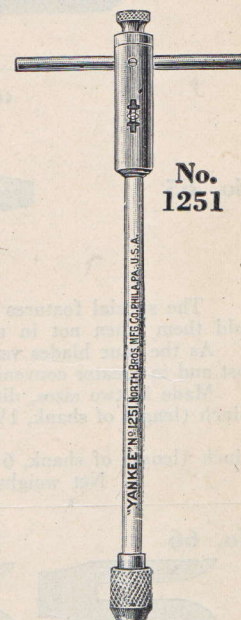
The Ratchet and Pawls are made of tool steel, hardened and tempered.

The Chuck has hardened steel jaws.

No. 250—Holds up to 3/16 in. Taps, outside diameter of chuck, 3/4 in.; length over all, 3 1/4 in.

No. 251—Holds up to 5/16 in. Taps, outside diameter of chuck, 7/8 in.; length over all, 5 in.

No. 1251—Same as No. 251, except length over all is 13 in. for work in steel cars, etc., and where long reach is necessary.



No.
1251

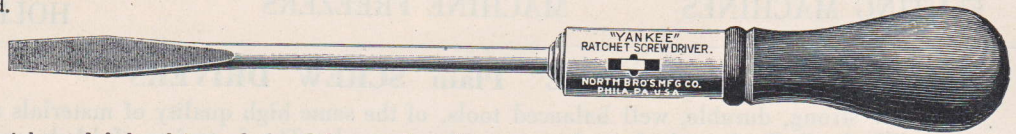
Price, Per Dozen	No. 250	No. 251	No. 1251
	\$	\$	\$
Net Weight per doz.	4 1/4 lbs.	6 3/4 lbs.	10 1/4 lbs.

Packed only one in paper box.

"YANKEE" Ratchet SCREW DRIVERS**RIGHT AND LEFT HAND, AND RIGID**

The friction in ratchet mechanism is so slight as to be hardly felt, the backward movement is as easy as in a good "stem-winder," and just as noiseless. The construction of ratchet and pawls is such that neither can bend, break, wear nor get out of order.

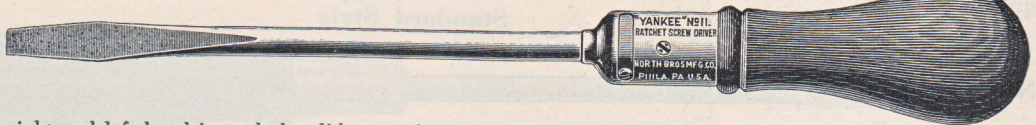
The bits are forged from best cast steel, properly tempered, ground and polished, and every bit is thoroughly tested before leaving factory. Other metal parts are nickel plated and buffed. The handles are made of hard wood, smoothly and handsomely polished.

No. 10

Adjustment for right or left hand is made by slide moved in direction of length of blade.

Length of Blade.....	2	3	4	5	6	8	10	12 in.
Per Dozen	\$	\$	\$	\$	\$	\$	\$	\$
Net Weight per doz.....	1¼ lbs.	3 lbs.	3½ lbs.	3¾ lbs.	4½ lbs.	5¾ lbs.	7¼ lbs.	7¾ lbs.

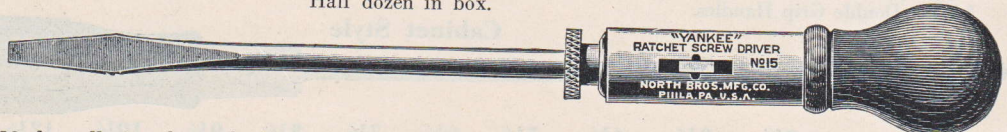
Half dozen in box.

No. 11

Adjustment for right and left hand is made by slide moved across length of blade.

Length of Blade.....	2	3	4	5	6	8	10	12 in.
Per Dozen	\$	\$	\$	\$	\$	\$	\$	\$
Net Weight per doz.....	1½ lbs.	2¾ lbs.	3 lbs.	3½ lbs.	4¾ lbs.	5¼ lbs.	6¾ lbs.	7¼ lbs.

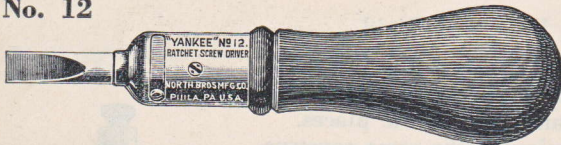
Half dozen in box.

No. 15

Similar to No. 10, but all sizes have ⅜ diameter blade, and differ only in length. On the blade is a knurled washer, so blade can be turned with finger and thumb while hand presses on handle to hold screw in place. Largely used by electrical workers.

Length of Blade.....	2	3	4	5	6	8 in.
Per Dozen	\$	\$	\$	\$	\$	\$
Net Weight per doz.....	1½ lbs.	1½ lbs.	1½ lbs.	1½ lbs.	1½ lbs.	1¾ lbs.

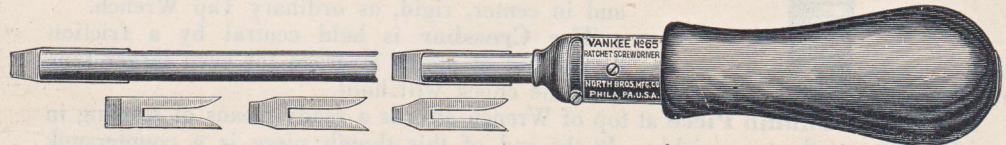
Half dozen in box.

No. 12

Same tool as six inch No. 11, except blade is only 1½ inch long. Made for special use of mechanics requiring a strong, substantial screw driver with short blade.

Per dozen, \$.....

Net weight per dozen, 3¾ lbs. Half dozen in box.

"YANKEE" Magazine Ratchet SCREW DRIVERS**No. 65****With Magazine and Loose Bits**

The special features in this tool are the easy removable and interchangeable blades, and the magazine in handle to hold them when not in use.

As the four blades vary to suit different sizes of screws, the one driver answers in place of four at a large saving in cost and in greater convenience.

Made in two sizes, different only in length of shank, viz:

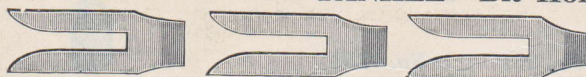
1-inch (length of shank, 1¼ inches). Entire length, 6¾ inches.....Per Dozen \$

Net weight per dozen, 4¼ lbs.

6-inch (length of shank, 6 inches). Entire length 11¼ inches.....Per dozen \$

Net weight per dozen 5¾ lbs.

Packed ½ dozen in a box.

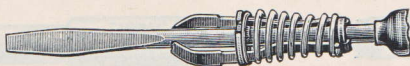
No. 66**"YANKEE" Bit Holder FOR BRACES**

Holder, with four heavy blades, for use in bit brace, length 4⅞ inchesPer dozen \$

Net weight per dozen, 3½ lbs.

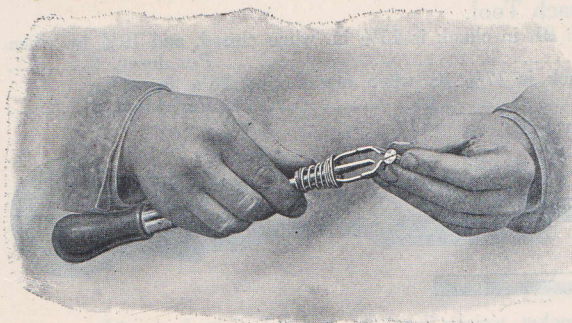
Packed one only in a box.

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"YANKEE" Ratchet SCREW DRIVERS**With Screw Holder Attachment
RIGHT AND LEFT HAND, AND RIGID**

The Screw Holder is a simple, inexpensive attachment to hold screw, put it in place, drive it in, especially in places difficult to reach and where only one hand can be used, and that does the work effectually without interfering with the ordinary use of the Screw Driver.

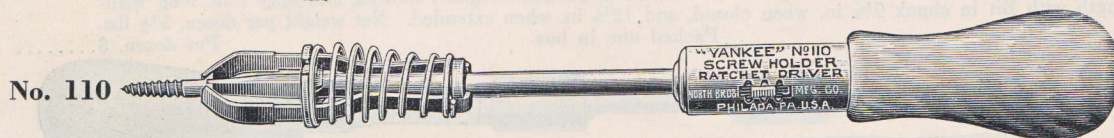
The attachment consists of two jaws, fastened to a head at one end, a ring to limit spread of jaws at other end and a spring to operate jaws.



Holding the Screw Driver in right hand, use thumb to push up the head (the part next to handle) which separates the jaws. Insert screw between jaws with slot over end of bit. Remove thumb and the spring closes jaws and holds screw firmly.

When screw is ratcheted in place the jaws will open as the head of the screw sinks into wood so screw can be driven in flush with surface without having to unfasten holder.

It releases automatically. In many places where it would be annoying to drop a screw in removal, it can be partly turned out, holder slipped over it and removed in holder. In ordinary work where screw holder is not required it is pushed back on blade toward handle, as in illustration, where it will stay out of way and yet ready for use at any moment.



No. 110

On No. 10 "Yankee" Ratchet Driver

	3	4	5	6	8 in.
Per dozen,	\$	\$	\$	\$	\$
Net weight per dozen	3½ lbs.	3¾ lbs.	4¼ lbs.	5¼ lbs.	6 lbs.

Half dozen in a box

No. 111

On No. 11 "Yankee" Ratchet Driver

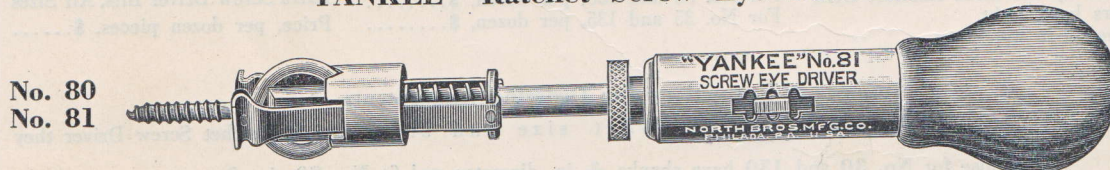
	3	4	5	6	8 in.
Per dozen,	\$	\$	\$	\$	\$
Net weight per dozen,	3½ lbs.	3¾ lbs.	3¾ lbs.	5½ lbs.	6½ lbs.

Half dozen in a box

No. 115

On No. 15 "Yankee" Ratchet Driver

	3	4	5	6	8 in.
Per dozen,	\$	\$	\$	\$	\$
Net weight per dozen,	2 lbs.	2½ lbs.	2¼ lbs.	2¾ lbs.	2½ lbs.

*Half dozen in a box***"YANKEE" Ratchet Screw Eye DRIVER**No. 80
No. 81

No. 80—To hold screw eyes No. 12 wire and smaller. Entire length, 5¼ inches.
Net weight, per dozen, 1¾ pounds.....Per dozen \$.....
No. 81—To hold screw eyes No. 8 wire and smaller. Entire length 6¼ inches.
Net weight per dozen, 3½ lbs.Per dozen \$.....

Half dozen in a box

"YANKEE" Spiral Ratchet SCREW DRIVERS

Right and Left Hand, and Rigid

No. 30
No. 31

They drive or draw screws by pushing on handle, or by ratchet movement, and can be made rigid as an ordinary Screw Driver by a lock when closed. Their advantages over all similar tools are their greater simplicity, compactness, strength, durability and easy operation.

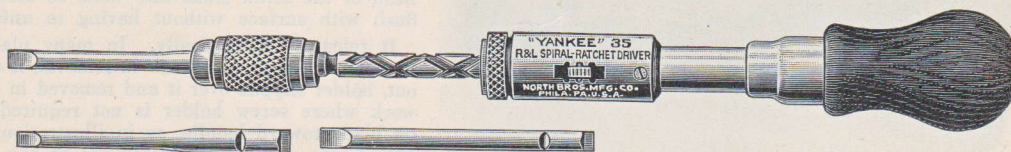
Three Bits of different widths are included with each Tool.

No. 30—Regular or Standard Size. Extreme length with Bit in chuck is 13½ in. when closed, and 19¼ in. when extended. Net weight per dozen, 11¾ lbs. Per dozen, \$.....

No. 31—Heavy Pattern. Extreme length with Bit in chuck is 17½ in. when closed, and 26¼ in. when extended. Net weight per dozen, 18½ lbs. Per dozen, \$.....

Packed one in box

No. 35



No. 35—Light Pattern. Small enough to be carried in pocket, weighs 7 ounces, and only 7 in. long without bit. Length with Bit in chuck 9½ in. when closed, and 12½ in. when extended. Net weight per dozen, 5½ lbs.

Packed one in box

Per dozen, \$.....

No. 20

**Right Hand Only and Rigid, for Driving Screws Only**

Size 1 Length with Bit, 10 in. closed, 14 in. extended. Per dozen, \$.....

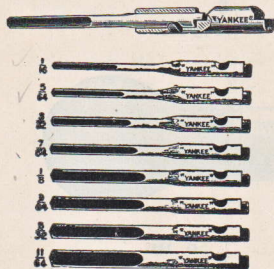
Net weight per dozen, 5½ lbs.

Size 2 Length with Bit, 12 in. closed, 17 in. extended. Per dozen, \$.....

Net weight per dozen, 8¼ lbs.

Size 3 Length with Bit, 13 in. closed, 19 in. extended. Per dozen, \$.....

Net weight per dozen, 10½ lbs.

ATTACHMENTS FOR SPIRAL SCREW DRIVERS**Chuck and 8 Drill Points**

HALF ACTUAL SIZE

For No. 30 and 130, per dozen, \$.....

For No. 31 and 131, per dozen, \$.....

For No. 35 and 135, per dozen, \$.....

No. 35 has only the three smallest Drill Points; others have eight.

Packed one set in wood box.

Bit With Screw Holder

For No. 30 and 130, per dozen, \$.....

For No. 31 and 131, per dozen, \$.....

For No. 35 and 135, per dozen, \$.....

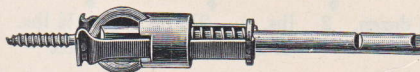
Countersinks

For No. 30 and 130

For No. 31 and 131

For No. 35 and 135

Price, all sizes, per dozen, \$....

Bit With Screw-Eye Holder

For No. 30 and 130, per dozen, \$.....

For No. 35 and 135, per dozen, \$.....

Screw Driver Bits

Extra Screw Driver Bits, All Sizes

Price, per dozen pieces, \$.....

Important Instructions for Ordering Attachments

In ordering attachments be particular to state for what size and style Spiral Ratchet Screw Driver they are wanted.

Those for No. 30 and 130 have shanks ⅜ in. diameter and fit No. 20 size 2

Those for No. 31 and 131 have shanks ⅜ in. diameter and fit No. 20 size 3

Those for No. 35 and 135 have shanks ⅜ in. diameter and fit No. 20 size 1

The shanks are same diameter as regular bit where it fits in Chuck and Spiral Driver.

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"YANKEE" Quick Return SPIRAL RATCHET SCREW DRIVERS

These are the regular patterns Nos. 30, 31 and 35 with a spring added in the handle, as shown in cut, which causes the handle to come back for the next push, in driving screws in or out.

They are "quick return," and more rapid and convenient in practical use than pulling the handle back.

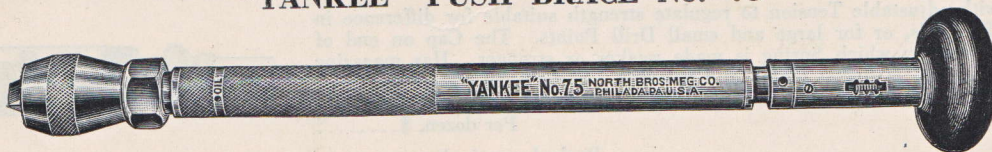
They are especially appreciated by workmen who are driving screws continually in narrow, deep places where the left hand cannot be used to hold the chuck end of the driver. They can be successfully used with one hand driving the tool, as the spring keeps bit in position, as it forces the handle back for the next stroke.

No. 130—This is the regular pattern (No. 30) with spring added in the handle, as shown in the cut above. Net weight, per dozen, 12½ lbs. Per Dozen \$.....

No. 131—This is the heavy pattern (No. 31) with spring added in the handle, as shown in the cut above. Net weight, per dozen, 20 lbs. Per Dozen \$.....

No. 135—This is the small pattern (No. 35) with spring added in the handle, as shown in the cut above. Net weight, per dozen, 6¼ lbs. Per Dozen \$.....

Bits and attachments for Nos. 30-31 and 35 Spiral Screw Drivers can be used in above Tools.

"YANKEE" PUSH BRACE No. 75

Operation—So named because it will hold all the small tools used in a bit brace, but is operated by pushing the handle to revolve the tools, in same manner as a "Yankee" Spiral Ratchet Screw Driver.

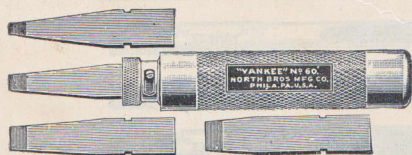
It Excels a Bit Brace in its greater rapidity and convenience in the lighter work ordinarily done by the brace. It will, with little effort, bore 3/16 holes in metal, drive 3/8-inch auger bit in hard woods, or 1/2 to 5/8 bits in white pine.

Many Purposes—It will drill holes, drive screws in or out; can be used for tapping holes, and with socket bit drive in small lag screws, run burrs, or nuts, on bolts, etc. Not only will it do this more rapidly than a brace, but being straight and cylindrical and operated by pushing, it can reach into many places, in corners, and in holes back of obstructions where a brace cannot be operated.

The Ratchet Movements enable this Push Brace to be used for occasional extra heavy work that can be conveniently done by the push movement.

No Bits or Drills, etc., are supplied with this Tool; use any made for Bit Braces.

No. 75—The entire length of tool, without bit, is 16¼ inches when closed, and 23½ inches when extended. Net weight, per dozen, 23 lbs. Per dozen \$.....

"YANKEE" Pocket Magazine SCREW DRIVER**No. 60**

Has four blades to suit different size screws. Blades are kept in magazine in handle. Tool weighs only 2 ounces and measures closed 3 inches long and 5/8 in. diameter, and is the only small and convenient pocket screw driver made with assorted width blades. Made of steel, polished and nickel plated.

Per dozen, \$.....

Net weight per dozen, 1½ lbs. One dozen in box.

JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

"YANKEE" Automatic DRILLS

For boring holes in wood for various purposes as setting screws, braces, nails, etc. They can be used in many places where a gimlet, brace-awl or brace cannot be used and are much more efficient. Holes can be bored in either soft or hard wood without splitting. The drill point is revolved by pushing on handle, while a spring forces the handle up and ready to be pushed down again. One push causes several revolutions of drill point. As handle can be easily pushed down a couple hundred times per minute, the drilling is quickly done.

No. 40



The Drill Point stands still during upward movement of handle. Has Ratchet movement for hard or tough woods. Has magazine for Drill Points, similar to No. 41. Nickel plated and polished. Eight Drill Points $\frac{1}{8}$ to $\frac{1}{4}$ with each drill. Entire length, as cut $10\frac{3}{4}$ inches. Net weight per doz., $7\frac{1}{2}$ lbs. Per dozen, \$.....
Packed one in box

No. 41



The Drill Point revolves backward in upward movement of handle to clear chips. Has magazine for Drill Points in handle. Nickel plated and polished. Eight Drill Points $\frac{1}{8}$ to $\frac{1}{4}$ with each Drill. Entire length, as cut $11\frac{1}{8}$ in. Net weight per doz., 7 lbs. Per dozen, \$.....
Packed one in box



No. 44



Has spring with adjustable Tension to regulate strength suitable for difference in hard and soft woods, or for large and small Drill Points. The Cap on end of Drill has a screw, by which Spring is made weaker or stronger. Has magazine for Drill Points, and is nickel plated and polished. Eight Drill Points $\frac{1}{8}$ to $\frac{1}{4}$ with each Drill. Entire length, as cut $11\frac{1}{4}$ in. Net weight per dozen, $8\frac{1}{4}$ lbs. Per dozen, \$.....
Packed one in box

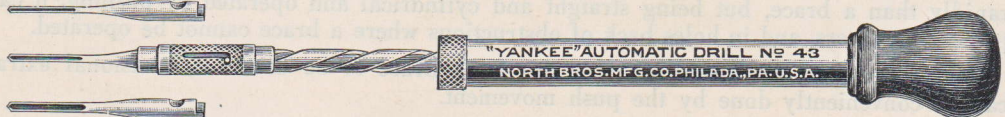


No. 42



Same as No. 41, except it has wood handle. 8 Drill Points, $\frac{1}{8}$ to $\frac{1}{4}$ all put up in small wood box. Nickel plated and polished. Entire length $11\frac{3}{8}$ inches. Net weight per dozen, $4\frac{1}{2}$ lbs. Per dozen, \$.....
Packed one in box

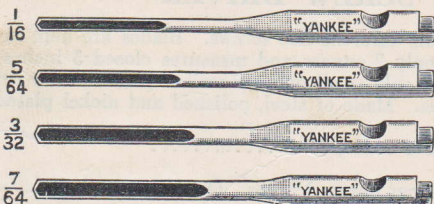
No. 43



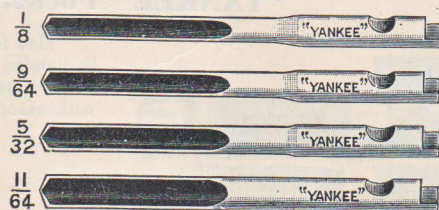
For light work only. Has only three Drill Points, $\frac{1}{8}$ to $\frac{3}{8}$ packed in wood box. Nickel plated and polished. Entire length $10\frac{3}{4}$ inches. Net weight per dozen, $2\frac{1}{2}$ lbs. Per dozen, \$.....
Packed one in box

DRILL POINTS for "YANKEE" DRILLS

The following illustrations are actual size as supplied with Yankee Drills. These can be supplied in sets, or in separate sizes in wood box.



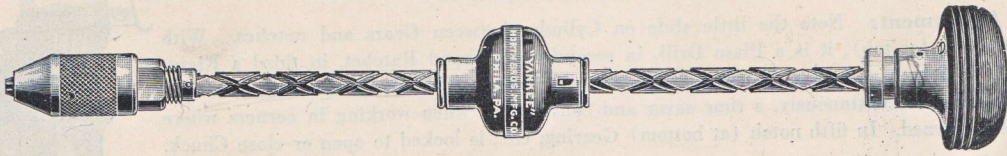
Price per Dozen Pieces, \$.....



Price per Set of 8 Pieces, \$.....

JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

"YANKEE" Reciprocating DRILL For Drilling Wood and Metals



No. 50—It is designed for use in drilling in steel, iron, brass and other metals, as well as all varieties of woods. It is so constructed that the drill runs continuously to the right, during both the forward and backward movement of the driver, hence drills continuously. The pressure to feed the drill is had by the pressure against the head of the tool, which is provided with ball bearing to reduce the friction.

The Chuck has three jaws, and is accurate, strong and durable.

No Drill Points Are Furnished with this tool—the user furnishing such quality, style and size best suited for work required in wood, iron, steel, brass, etc. The chuck will hold any drill with straight shank in $\frac{3}{16}$ inch diameter or less.

The movement or traverse of the driver is $8\frac{1}{2}$ inches. The entire length of tool without drill is 16 inches. Net weight, per doz., $12\frac{3}{4}$ lbs. Per doz, \$.....

"YANKEE" TOOL SET NO. 100



In response to frequent demands for "Yankee" Screw Drivers put up in substantial and well finished boxes, to be used by mechanics who desire to keep tools in fine order, and by gentlemen or amateur mechanics who especially appreciate tools put up in handsome sets, the set as illustrated above has been prepared. The box is very substantially made of oak and handsomely finished.

Contents—This set contains the following "Yankee" Tools (a full description of each tool is given on the accompanying pages).

One No. 30 Spiral Ratchet Screw Driver.

One Chuck, with drill points, eight sizes, $\frac{1}{8}$ - $\frac{5}{64}$ - $\frac{3}{32}$ - $\frac{7}{64}$ - $\frac{1}{8}$ - $\frac{9}{64}$ - $\frac{5}{32}$ - $\frac{11}{64}$ inches, to use for drilling holes with the No. 30 Spiral Ratchet Screw Driver.

One Countersink to use in same tool.

One No. 11 Ratchet Screw Driver, with blade 6 inches long.

One No. 15 Ratchet Screw Driver, with finger turn on blade, with blade 3 inches long.

These are the styles and sizes of "Yankee" Tools most in demand, and the combination in a set covers all the usual requirements in tools for driving and drawing out screws. The tools are easily removed from box, and when it is closed are held firmly in place. Net weight including wood box, $3\frac{1}{4}$ pounds.

The box measures $12\frac{1}{2}$ x $4\frac{3}{4}$ x $2\frac{3}{4}$ inches. Per set \$.....

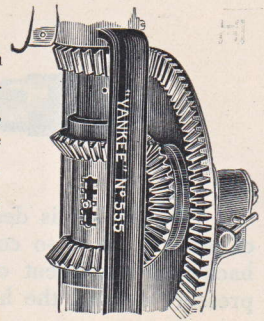
"YANKEE" Ratchet BREAST AND HAND DRILLS

Differ from all others in what they will do and how they do it.

Quick Adjustment: Note the little slide on Cylinder between Gears and notches. With slide in first notch (at top), it is a Plain Drill, in second a Left-hand Ratchet, in third a Right-hand Ratchet, in fourth a Double Ratchet, where any movement of Crank forward or backward, causes the Drill to cut continuously, a time saver and convenience when working in corners where crank cannot be turned. In fifth notch (at bottom) Gearing, etc., is locked to open or close Chuck.

Simple Operation: No simpler operation can be conceived than the movement of this little shifter within convenient reach, to produce such widely varied movements in one tool.

Change of Speed: The change of speed on the double speed is made by pushing the little lever at the hub of the crank toward gear for fast and away from gear for slow speed. This is done in the fractional part of the revolution and at any time, even while drilling, without removing the tool from work, and with any of the various movements of the shifter explained above.

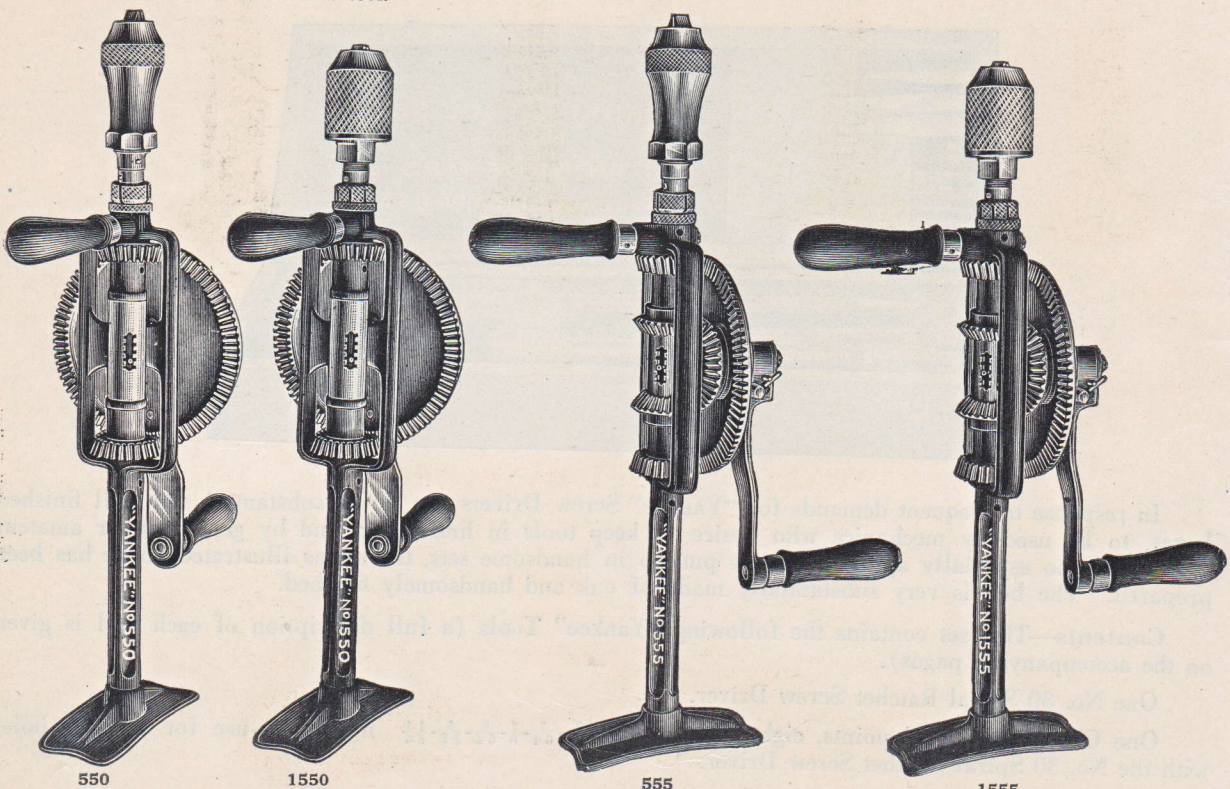


Mechanism supplied on all "Yankee" Ratchet Breast and Hand Drills.

"YANKEE" Ratchet BREAST DRILLS

With Right and Left Hand and Continuous Ratchet Movement

Adjustable ball bearings, malleable iron frame, steel spindle, cut gears. Large gear $5\frac{1}{4}$ in., small gear $1\frac{7}{8}$ in. diameter. Finished in dull black, bright parts nickel-plated and polished. Built like a machine tool.



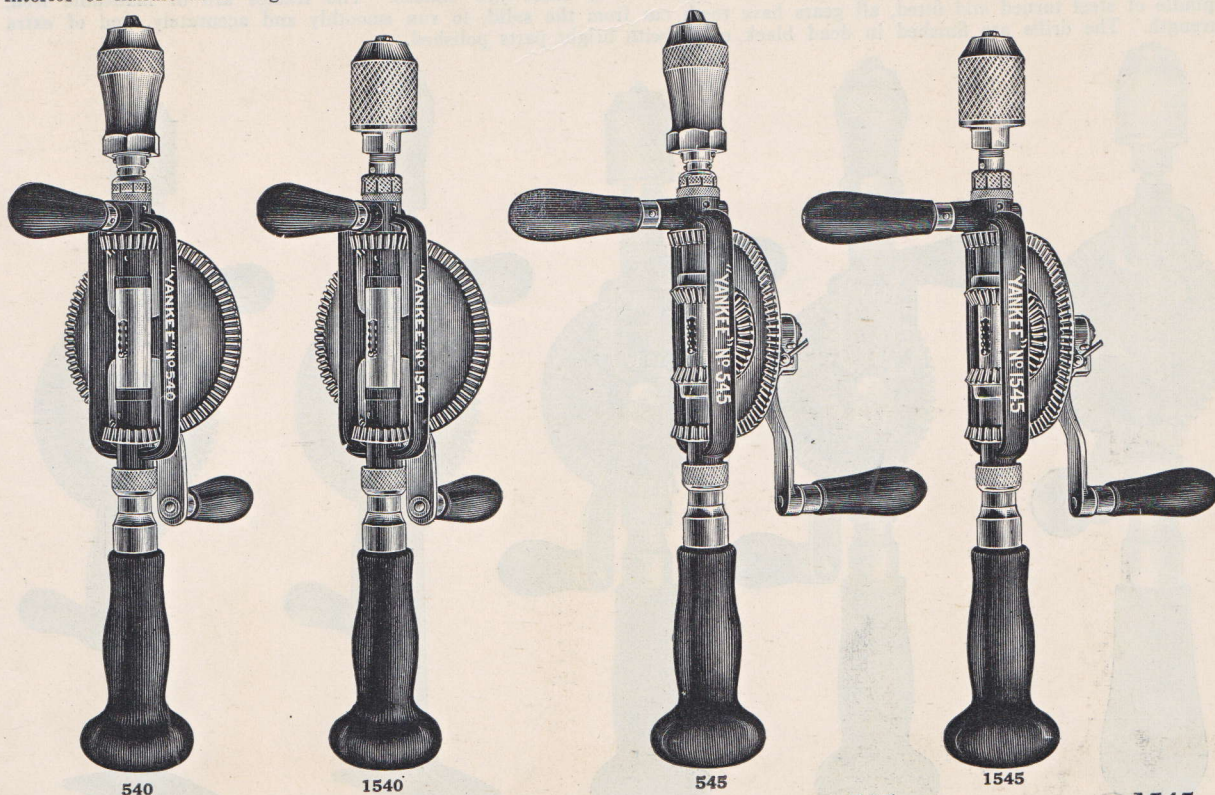
Number	550	1550	555	1555
Chuck-holds	2-Jaw $\frac{1}{2}$ in.	3-Jaw $\frac{1}{2}$ in.	2-Jaw $\frac{1}{2}$ in.	3-Jaw $\frac{1}{2}$ in.
Speed	Single	Single	Double	Double
Length	18 in.	17 in.	18 in.	17 in.
Weight-net	$5\frac{3}{4}$ lbs.	$5\frac{3}{4}$ lbs.	$6\frac{3}{4}$ lbs.	$6\frac{3}{4}$ lbs.
Each	\$.....	\$.....	\$.....	\$.....

D Handles can be supplied to use in place of Breast plate, as an extra part.....Per dozen, \$.....

JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

"YANKEE" Ratchet HAND DRILLS**With Right and Left Hand and Continuous Ratchet Movement**

Adjustable ball bearings, malleable iron frame, steel spindle, cut gears. Large gear $4\frac{1}{2}$ inches, small gear $1\frac{1}{2}$ inches diameter. Wood handle is $4\frac{1}{2}$ inches long, $2\frac{1}{2}$ inches diameter, and can be detached from frame by milled nut to use interior of handle as a magazine for drills. Finished in dull black, bright parts nickel plated and polished.

**Number . .**

Chuck-holds.
Speed.....
Length.....
Weight-net...
Each.....

540

2-Jaw $\frac{3}{8}$ in.
Single
 $16\frac{1}{2}$ in.
 $3\frac{1}{2}$ lbs.
\$.....

1540**1540**

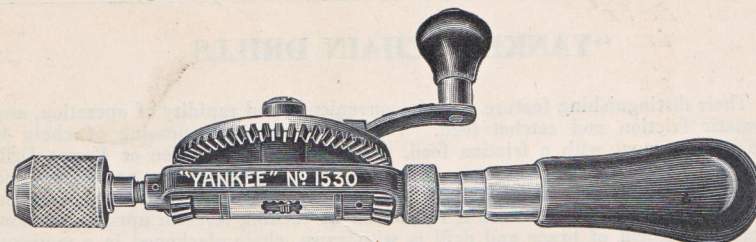
3-Jaw $\frac{3}{8}$ in.
Single
16 in.
 $3\frac{1}{2}$ lbs.
\$.....

545**545**

2-Jaw $\frac{3}{8}$ in.
Double
 $16\frac{1}{2}$ in.
 $4\frac{1}{4}$ lbs.
\$.....

1545**1545**

3-Jaw $\frac{3}{8}$ in.
Double
16 in.
 $4\frac{1}{4}$ lbs.
\$.....

"YANKEE" Ratchet HAND DRILLS**No. 1530—With Right and Left Hand and Continuous Ratchet Movement**

The Frame is malleable iron, finished in dead black color. The Chuck body is steel, polished and nickel-plated. The Jaws are of steel, drop forged and hardened. The Spindle of steel and gears are cast iron with cut teeth. The driving gear is 3 inches diameter and driven gears on spindle $\frac{7}{8}$ inch diameter.

The thrust on spindle is taken by hardened steel bearing in lower end of frame, and so arranged that any wear can be readily taken up.

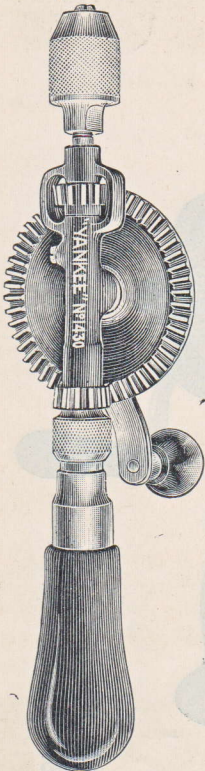
The wood handle with ferrule is 4 inches long, large end $1\frac{1}{2}$ inches diameter, and can be detached from frame by the milled nut, and thus use interior of handle as a magazine for drills. Extreme length of Drill is $10\frac{1}{2}$ inches.

This Drill is made in one style only, with 3-Jaw Chuck, capacity $\frac{3}{8}$ inch, single speed. Net weight, $1\frac{1}{4}$ lbs. Each, \$.....

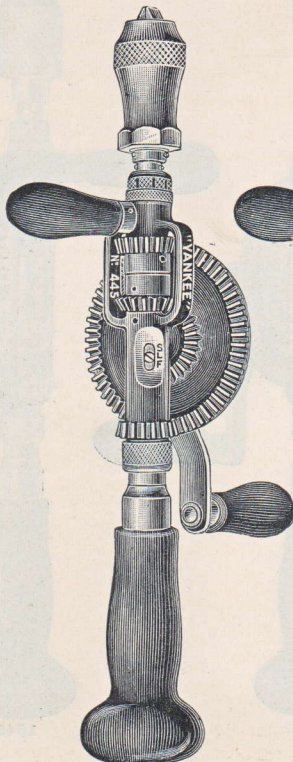
"YANKEE" Plain BREAST AND HAND DRILLS

Attention is called to the very quick and easy change in speed to be made by the small shifter on main frame between small gears. With shifter at top notch S, it is set for slow speed, at bottom notch F, fast speed, in center notch L, the spindle is locked so the chuck can be readily opened or closed.

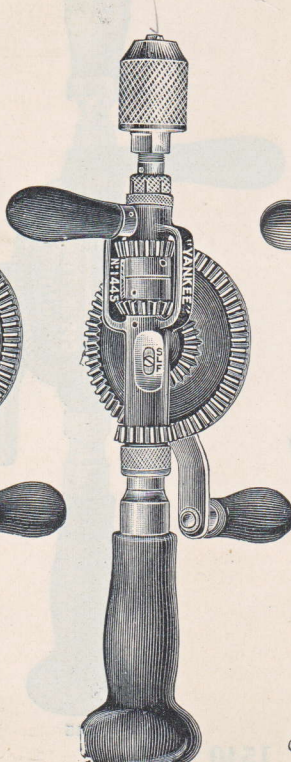
They are strong and substantially built for hard work and durability, have adjustable ball bearings on spindle to take up all strain or wear. They are made with either two or three jaw chucks. The frames are of malleable iron, spindle of steel turned and fitted, all gears have teeth cut from the solid, to run smoothly and accurately, and of extra strength. The drills are finished in dead black color, with bright parts polished.



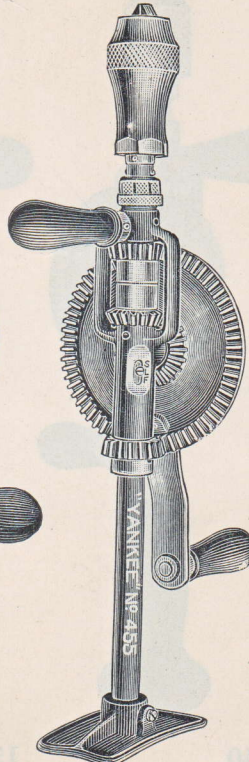
Number 1430
Chuck-holds 3 Jaw $\frac{3}{8}$ "
Speed Single
Length 10 $\frac{1}{2}$ in.
Weight, net 1 $\frac{1}{4}$ lbs.
Each \$.....



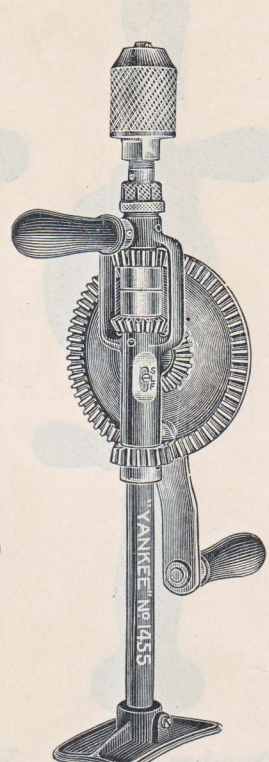
Number 445
Chuck-holds 2-Jaw $\frac{3}{8}$ "
Speed Double
Length 15 $\frac{3}{4}$ in.
Weight, net 3 $\frac{1}{2}$ lbs.
Each \$.....



Number 1445
Chuck-holds 3-Jaw $\frac{3}{8}$ "
Speed Double
Length 15 in.
Weight, net 3 $\frac{1}{2}$ lbs.
Each \$.....



Number 455
Chuck-holds 2-Jaw $\frac{1}{2}$ "
Speed Double
Length 17 $\frac{1}{4}$ in.
Weight, net 5 $\frac{1}{2}$ lbs.
Each \$.....



Number 1455
Chuck-holds 3-Jaw $\frac{1}{2}$ "
Speed Double
Length 16 $\frac{1}{2}$ in.
Weight, net 5 $\frac{1}{2}$ lbs.
Each \$.....

Nos. 1430-445-1445 have detachable Handles with magazine for Drills. For Nos. 455 and 1455 D Handles can be supplied.

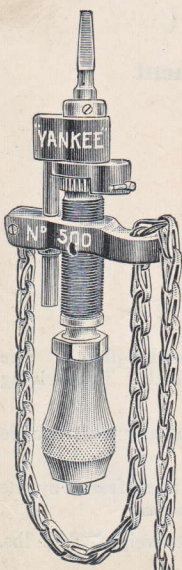
"YANKEE" CHAIN DRILLS

Their distinguishing feature is their convenience and rapidity of operation, and automatic friction and ratchet feed. The taking up and releasing of chain is done in a moment with a friction feed, by simply turning Brace or Breast Drill by which Chain Drill is operated. When the chain is tight, the automatic feed operates by turning of small lever to horizontal position. When drill has reached desired depth the automatic feed is thrown off by turning lever to upright position. Reverse movement of brace and drill is withdrawn, chain slackened in a moment.

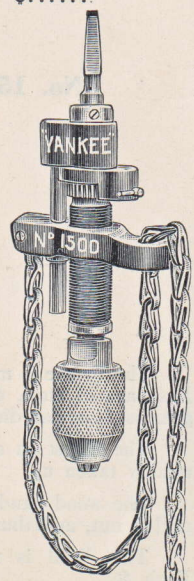
The automatic feed is positive, fixed and without adjustment for drills up to $\frac{1}{2}$ inch, so that drills cannot be broken in use. There is no hand feed, nor any parts to fuss over, and nothing to catch or pinch the fingers in use.

No. 500, 2-Jaw Chuck, each \$.....Net weight, 3 $\frac{1}{2}$ lbs. each

No. 1500, 3-Jaw Chuck, each \$.....Net weight, 3 $\frac{1}{2}$ lbs. each



No. 500

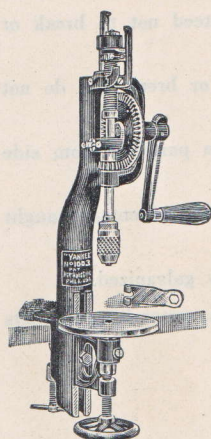


No. 1500

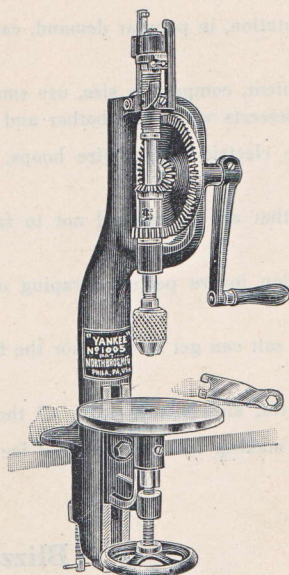
JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

"YANKEE" BENCH DRILL

With Automatic
Friction and
Ratchet Feeds



No. 1003



No. 1005

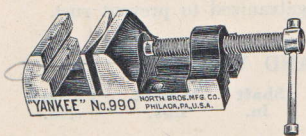
Has two feeds, friction or rapid movement of spindle—and ratchet to feed drill. Feed adjusted for drills from No. 45 up, to work without breaking, and is thrown off automatically top or bottom to prevent jamming. Table has vertical adjustment on bracket, also adjustable bracket. Both are removable.

The chuck is of steel with hardened jaws. Spindles are of steel. Gears have teeth of extra strength, cut from the solid metal. The pinions are of steel. The feed screws are steel and have ball bearings at end. All wearing parts are tempered.

	No. 1003 Single Speed	No. 1005 Two Speed
Chuck, holds up to	$\frac{1}{4}$ in.	$\frac{1}{2}$ in.
Traverse automatic feed	$1\frac{1}{2}$ in.	2 in.
Diameter of table	$4\frac{3}{4}$ in.	$6\frac{3}{4}$ in.
Adjustment of table in bracket	$1\frac{1}{4}$ in.	$1\frac{3}{4}$ in.
Adjustment of bracket	$2\frac{3}{4}$ in.	5 in.
Drill extends below top of bench	$4\frac{1}{4}$ in.	6 in.
Drill extends above top of bench	$14\frac{1}{2}$ in.	22 in.
Entire length of drill	$18\frac{3}{4}$ in.	28 in.
Net weight	$10\frac{1}{4}$ lbs.	29 lbs.
Gross weight, one in box	20 lbs.	57 lbs.
Price, each	\$.....	\$.....

"YANKEE" VISES

No. 990

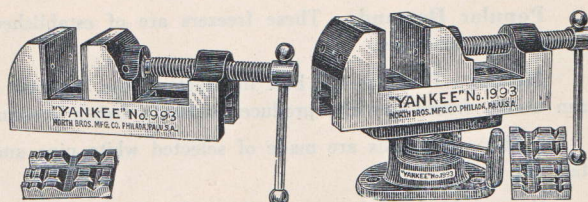


square, when used either flat or on sides.

With the V groove shown in the front jaw, round work is held perfectly rigid and parallel at all times.

A removable swivel jaw is provided to hold taper work, and is made of steel, case hardened. Net weight, 4 lbs. each. Each \$.....

This vise is designed for use on "Yankee" Bench Drills, or separately attached to bench. The body and sliding jaw are of cast iron, accurately machined to hold work

"YANKEE" VISES

Without Swivel Base
Nos. 991-992-993

With Swivel Base
Nos. 1991-1992-1993

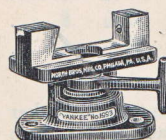
Yankee Vises are made in two styles, with and without Swivel Base.

Without Swivel Base they can be used on bench, or on a Bench Drill or other small machines.

With Swivel Base, while used on the bench the Vise proper can be quickly detached from base, and without removing work from Vise, can be used on Bench Drill, etc., and returned to base again.

This is a new feature in Vises, and one that will be quickly appreciated by the best mechanics where work can be held rigidly in the Vise and while so held be worked on by either hand or machine.

The Vise proper has body and sliding jaw of cast iron with hardened steel faces. It is accurately machined all over so it can be used on either side or end as well as on base in Drill Press, etc. A hardened steel block with V shaped grooves is provided for holding round or irregular shaped work.



The upper part of swivel base has a taper part to receive corresponding end of Vise proper, and with set screw in one end to force tapers into position, thus clamping Vise and Base perfectly rigid.

Without Swivel Base	Nos. 991	992	993
Base—Length,	$3\frac{5}{8}$ ins.	$4\frac{7}{8}$ in.	$7\frac{1}{4}$ in.
Width,	$1\frac{1}{2}$ in.	2 in.	$2\frac{3}{4}$ in.
Jaws—Opening,	$1\frac{1}{2}$ in.	$1\frac{1}{8}$ in.	$3\frac{1}{8}$ in.
Depth,	$\frac{7}{8}$ in.	$1\frac{1}{4}$ in.	$1\frac{7}{8}$ in.
Width,	$1\frac{1}{2}$ in.	2 in.	$2\frac{3}{4}$ in.
Height Overall,	$1\frac{1}{2}$ in.	$2\frac{1}{8}$ in.	3 in.
Length Overall,	$4\frac{5}{8}$ in.	6 in.	$8\frac{3}{4}$ in.
Net Weight,	1 lb. 6 oz.	3 lbs. 6 oz.	9 lbs. 2 oz.
Each .....	\$.....	.....	.....

With Swivel Base	Nos. 1991	1992	1993
Swivel Base Diameter,	$2\frac{1}{2}$ in.	$3\frac{1}{4}$ in.	$4\frac{1}{2}$ in.
Height Overall,	$3\frac{1}{8}$ in.	$4\frac{1}{8}$ in.	$5\frac{3}{4}$ in.
Net Weight,	2 lbs. 6 oz.	5 lbs. 7 oz.	13 lbs. 6 oz.
Each .....	\$.....	.....	.....

Nos. 991, 992, 1991, 1992, packed one only in a paper box.

Nos. 993, 1993, packed one only in a fibre box.

ICE CREAM FREEZERS

Popular Demand: These freezers are of established reputation, in popular demand, easily sold and give satisfaction to merchant and user.

Merits: They are the best in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

Pails: The pails are made of selected white pine and have electric-welded wire hoops, guaranteed not to break or fall off.

Cans: Made of heavy tin plate with drawn steel bottoms that are guaranteed not to fall out or break and do not leak: strongest and most durable can made.

Scrapers: The automatic twin scrapers by their positive action insure perfect scraping of frozen particles from side of can as rapidly as formed without injury to can or scrapers.

Gears: The gears are completely covered, so neither ice nor salt can get in cogs, nor the fingers be accidentally caught and injured.

Parts: All inside parts are heavily coated with pure block tin, and outside parts all thoroughly galvanized.

Recipe Book: A recipe book, with complete directions for making over one hundred ice creams, water ices, sherbets and other desserts, packed in each freezer.

Lightning



Size Quarts	Weight Each Pounds	Price Each
(Toy) 1/8	2	\$.....
1	7 3/4	\$.....
2	9 3/4	\$.....
3	11 3/4	\$.....
4	14 1/4	\$.....
6	18 3/4	\$.....
8	24 1/4	\$.....
10	29 1/2	\$.....
12	32 1/2	\$.....
14	41	\$.....

The **Lightning Freezer** has the famous wheel dasher and is easily operated. The top plate is made to swing up as if hinged to pail, but is detachable.

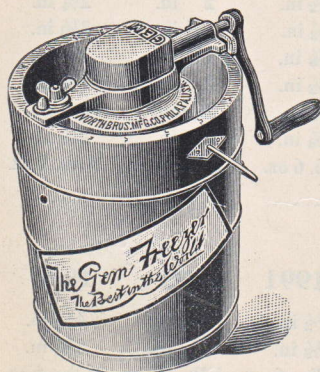
Blizzard



Size Quarts	Weight Each Pounds	Price Each
1	6 1/4	\$.....
2	8 3/4	\$.....
3	10 1/4	\$.....
4	12 3/4	\$.....
6	17	\$.....
8	21	\$.....
10	27 1/2	\$.....
12	29 1/4	\$.....
14	32 1/4	\$.....

The **Blizzard Freezer** is the best low-priced freezer in the market. It is more simply constructed, being single-action. The can only revolves. It is easy-running, economical and convenient.

Gem



Size Quarts	Weight Each Pounds	Price Each
(Toy) 1/8	2	\$.....
1	7	\$.....
2	9 3/4	\$.....
3	11	\$.....
4	13 3/4	\$.....
6	18 1/4	\$.....
8	22 1/2	\$.....
10	29 3/4	\$.....
12	31 1/2	\$.....
14	35	\$.....

The **Gem Freezer** is double-action, the can and dasher revolving in opposite directions. The cross-bar is not hinged. The revolving dasher forces the cream from the center to circumference, where it is frozen and removed by the automatic twin scrapers.

Fly Wheels

FOR "LIGHTNING," "GEM" AND "BLIZZARD" FREEZERS



To avoid confusion, all freezers will be supplied with cranks as heretofore, so that it will not be necessary to keep any special stock of freezers with fly wheels. They are all smoothly and heavily galvanized to prevent rust.

DIMENSIONS AND WEIGHTS

For Freezers Quarts	Diam. In.	Shaft In.	Weight Lbs.	Pattern No.
2-3-4 All Styles.....	12	7/8	6	3712
6 " "	13	1/2	8 1/4	3713
8 " "	14	1/2	10 3/4	3714
10-12 " "	15	1 1/8	15	3715
14 Gem & Blizzard	18	1 1/8	21 3/4	3716
14 Lightning	18	5/8	21 3/4	3776

JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

ICE CREAM FREEZERS

For Use in Hotels, Restaurants, Confectioners',
Boarding Houses, Etc.

The Tubs are made extra heavy, and have electric-welded Wire Hoops.

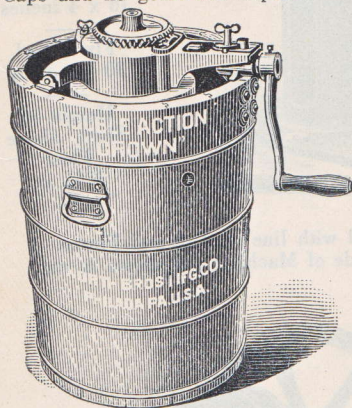
The Cans are of heavy Tinsplate, with tinned malleable Iron Bottom.

The Cross-bar is made to swing up out of way, to take out Can, and may be entirely removed from Freezer.

The Gear and Fly-wheel Shafts are connected by Clutches, which engage or disengage by simply raising and lowering the Cross-bar.

The Fly-wheel Pulley or Crank remains stationary on side of Pail.

The Projecting Gears shown in illustrations are covered by Caps and no gears are exposed.

Crown Double
Action

WITH CRANK

Size Qts.	Weight Lbs.	Price Each
8	36	\$.....
10	38	\$.....
14	45	\$.....
18	66	\$.....
24	76	\$.....

WITH FLYWHEEL

Size Qts.	Wht. Lbs.	Wheel Diam.	Price Each
8	54	18 in.	\$.....
10	58	18 in.	\$.....
14	65	18 in.	\$.....
18	98	22 in.	\$.....
24	111	24 in.	\$.....
32	138	30 in.	\$.....

WITH ONE PULLEY

Size Qts.	Wht. Lbs.	Size Pulley	Price Each
14	62	14 x 3	\$.....
18	93	16 x 4	\$.....
24	103	16 x 4	\$.....
32	110	16 x 4	\$.....

Jumbo Lightning
WITH CRANK

Size Qts.	Weight Lbs.	Price Each
20	64	\$.....

WITH FLYWHEEL

Size Qts.	Wht. Lbs.	Size Wheel	Price Each
14	63	18 in.	\$.....
20	96	22 in.	\$.....

WITH PULLEY

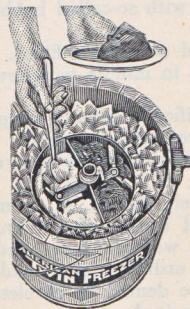
Size Qts.	Wht. Lbs.	Size Pulley	Price Each
14	61	14 x 3	\$.....
20	91	16 x 4	\$.....

Important: The above freezers which are fitted for power use, have been made to meet the demand from Hotels, Restaurants, Boarding Houses, Confectioners, etc., for Power Freezers at a Low Price. They are not equal in Strength to the regular Machine Freezers which are listed on the following pages.

American Twin Freezer

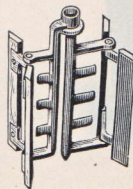
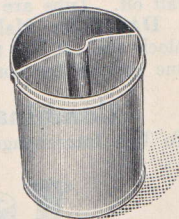
TWO COMPARTMENTS—EASY SWING MOTION

Freezes two flavors of ice cream or an ice or sherbet and ice cream at one and the same time, in one Freezer. Something entirely new—Never done before.



"Twin" Can: The can is divided in two parts by a vertical partition, which projects above top of can and bears against the can lid, so that during freezing nothing can pass from one side of can to the other. The dasher has a central shaft which fits in the groove of the partition of can. This dasher carries two sets of scrapers, one set fitting in one side of can and the other set in opposite side.

Swing Motion: The can is swung forwards and backwards, by a rocking motion of the crank. One scraper of the set in each half of can scrapes when can moves in one direction, and the others in opposite direction. The scrapers are held automatically against side of can so that frozen particles are scraped off positively and continuously.



Outside of the special feature of making two flavors at one freezing, it is very much less tiresome than turning a crank round and round. One can sit back in a chair with freezer alongside and rock the crank to and fro without discomfort or undue exertion.

Sizes and Weights



Size Qts.	Weight Lbs.	Price Each
2	12	\$.....
3	13¾	\$.....
4	17	\$.....
6	22	\$.....
8	28	\$.....
10	32	\$.....
12	35½	\$.....
15	54	\$.....
20	60	\$.....

MACHINE FREEZERS

The highest type and largest variety of substantially and accurately built machines in the market. The most careful attention has been given to every detail of design and workmanship. The following description applies to all Freezers on pages 234-235.

FRAME: One solid casting, and not of a number of pieces carelessly bolted together. The frame is thus much stronger, less liable to breakage or to get out of order.

BEARINGS: The bearings for shaft are bored out correctly and in line and not rough holes with so-called babbit metal to make them smooth.

SHAFTS: The shafts are steel and accurately fitted.

PULLEYS: The pulleys are placed in middle to relieve undue strain on bearings.

TEETH: In gearing are of scientifically correct shape to run smoothly, their wide face secures extra strength.

GEARING: The gearing is completely covered to prevent fingers being caught and crushed.

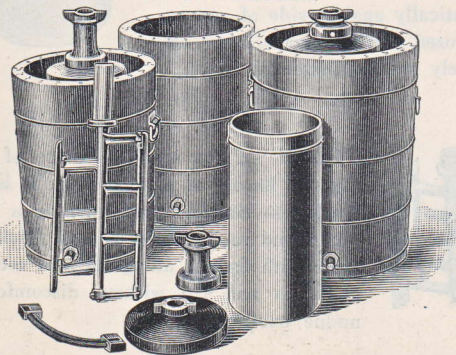
CAN: Made of No. 18 Sheet Steel, riveted in seam, with heavy malleable iron bottom and tinned after being made up. The top is reinforced with wrought iron band. The body is much thicker than the ordinary can, made of the heaviest tin plate, and cannot be dented by careless use. Copper cans are furnished if required.

TUBS: Extra heavy, staves tongued and grooved, and bound with Electric Welded Wire Hoops, being much stronger than ordinary flat hoops, and guaranteed not to fall off. Tubs are painted both inside and outside.

DASHER: Malleable iron, heavily coated with pure block tin. It has two metal scrapers for side of can and one scraper for bottom of can.

Combination Machine Freezer

To Use Interchangeably, 18, 24, 32 and 40-qt. Apparatus in One Machine.



Apparatus Only. Viz.: Tub, Can, Lid, Dasher, Clutch

	Weight	Steel Can	Copper Can
40-qt.	100 lbs.	\$75.00	\$95.00
32-qt.	89 lbs.	70.00	90.00
24-qt.	75 lbs.	65.00	85.00
18-qt.	62 lbs.	60.00	80.00

Apparatus is the same for both styles, A and B

Styles "A" and "B"

ADJUSTABLE CONTAINERS: The illustrations show machines with 40-qt. cans and tubs. Smaller sizes are used by having extension pieces or couplings to reach from gearing to dasher and can of each 18, 24 and 32-qt. sizes. In using smaller size tubs a quarter circle casting is placed over lugs on base. When tub is pushed against this casting the tub is properly centered and dasher in line with driving mechanism.

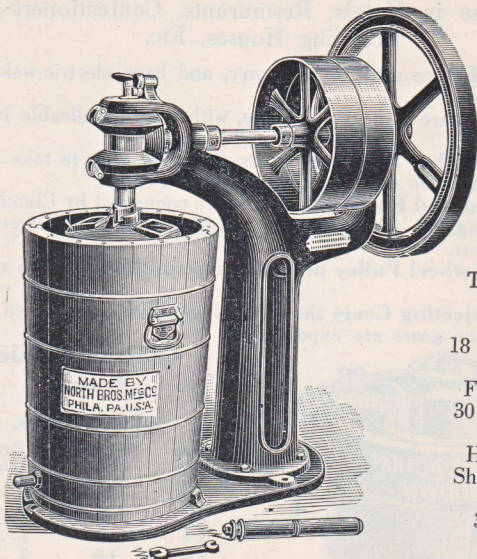
CLUTCHES: Operated by one small lever at top of machine.

OPERATION: In position shown in illustration the gearing is engaged with can and dasher to operate freezer. When lever is thrown in opposite position the clutches are separated so that tub with can and dasher may be easily removed. The lever locks the clutch in either position.

SAFETY: Gearing is never exposed. Cover prevents any possible injury to operator, or gearing becoming clogged with dirt, ice or salt. No loose pieces to be lost or mislaid.

MACHINE FREEZERS

Combination Machine Freezer



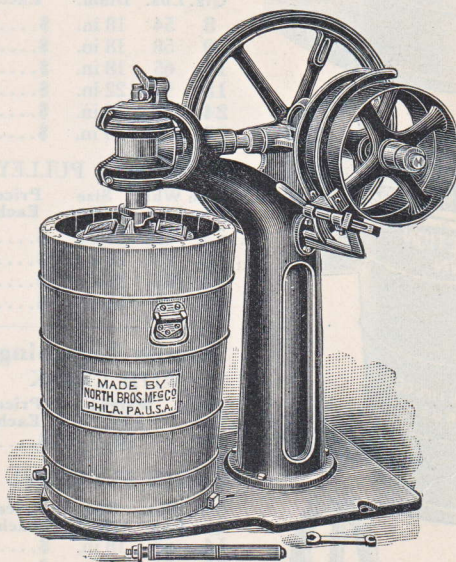
Style
"A"

Tight and
Loose
Pulleys
18 x 4 inches

Fly Wheel
30 in. diam.

Height of
Shaft above
Floor
37 3/4 in.

Driving Shaft parallel with line of Tub and Frame.
Belt Shifter on far side of Machine, not shown in cut.



Style
"B"

Tight and
Loose
Pulleys
12 x 4 inches

Fly Wheel
28 in. diam.

Height of
Shaft above
Floor
37 3/4 inches.

Driving Shaft at right angles with line of Tub and Frame.
Belt Shifter on one side of Machine.

Machine with One Size Apparatus

With Pulleys and Fly Wheel

Frame furnished with any size Apparatus as named below. Extra Apparatus of any size given can always be supplied.

Style "A"				Style "B"			
Qts.	Weight Pounds	Steel Can	Copper Can	Weight Pounds	Steel Can	Copper Can	
40	632	\$230.00	\$250.00	592	\$240.00	\$260.00	
32	603	225.00	245.00	563	235.00	255.00	
24	592	220.00	240.00	552	230.00	250.00	
18	582	215.00	235.00	542	225.00	245.00	
Without Pulleys List Price				Without Fly Wheel List Price			
Deductions		Weight	Price	Deductions		Weight	Price
Style "A" deduct.		50 lbs.	\$20.00	Style "A" deduct.		127 lbs.	\$18.00
Style "B" deduct.		25 lbs.	15.00	Style "B" deduct.		70 lbs.	12.00

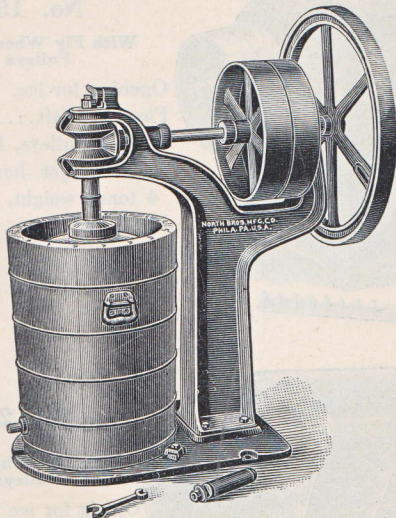
MACHINE FREEZERS

Designed to meet demand for smaller sized, well built machines for confectioners whose business is not large enough to warrant putting in 40-quart machines to operate by Hand or Power.

The cans, tubs, dashers, workmanship and materials are same as described on previous pages in connection with our other styles of Machine Freezers.

The general design and the mechanism for engaging gearing with dasher is same as in our Combination Freezer, but the smaller size of machine, the omission of belt shifter, and no provision to use different size apparatus interchangeably allows of a much less price than the same sizes in our Combination Freezer and puts a substantially built Machine Freezer of a small capacity within reach of every confectioner using power. The machines are furnished without pulleys or without fly wheels if so desired, also with steel or copper cans.

"Seaman" Style



TIGHT AND LOOSE PULLEYS, 14 x 2½ INCHES

Fly Wheel, 28 Inches Diameter

Height of Shaft Above Floor, 31 Inches

	Weight	Steel Can	Copper Can
14 qt. With Pulleys and Fly Wheel,	302 lbs.	\$135.00	\$155.00
18 qt. With Pulleys and Fly Wheel,	310 lbs.	140.00	160.00

"Lightning" Style

	Weight	Steel Can	Copper Can
14 qt. With Pulleys and Fly Wheel,	311 lbs.	\$135.00	\$155.00
20 qt. With Pulleys and Fly Wheel,	320 lbs.	145.00	165.00
Without Pulleys, deduct.....	27 lbs.	15.00	15.00
Without Fly Wheel, deduct.....	46 lbs.	7.00	7.00

TIGHT AND LOOSE PULLEYS, 16 x 3 INCHES

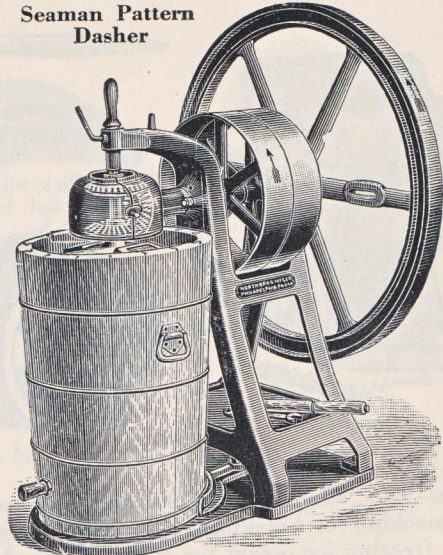
Fly Wheel, 28 Inches Diameter

Height of Shaft Above Floor, 35 Inches

	Weight	Steel Can	Copper Can
24 qt. With Pulleys and Fly Wheel,	425 lbs.	\$175.00	\$195.00
32 qt. With Pulleys and Fly Wheel,	437 lbs.	180.00	200.00
Without Pulleys, deduct.....	37 lbs.	16.00	16.00
Without Fly Wheel, deduct.....	70 lbs.	11.00	11.00

"Improved Philadelphia"

Seaman Pattern
Dasher



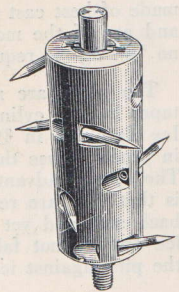
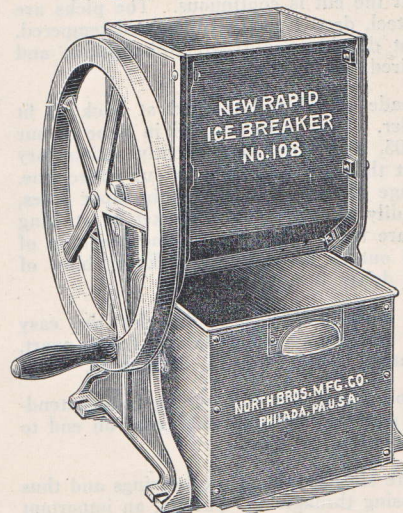
40 Qt. Can and Dasher both revolve in opposite directions.

The Tubs, Cans, etc., are described on page 234

Made in 40-qt. size only. The tight and loose Pulleys are 18 x 4 in. The Fly Wheel is 42 in. diameter, weighing 175 lbs. Height of shaft above floor, 33½ inches.

Style	Lbs.	Steel Can	Copper Can
With Pulleys and Fly Wheel..	640	\$200.00	\$220.00
With Fly Wheel, no Pulleys..	590	180.00	200.00
With Pulleys, no Fly Wheel...	465	175.00	195.00
Apparatus only, or Tub, Can,			
Dasher and Lid.....	114	80.00	100.00

NEW RAPID ICE BREAKER

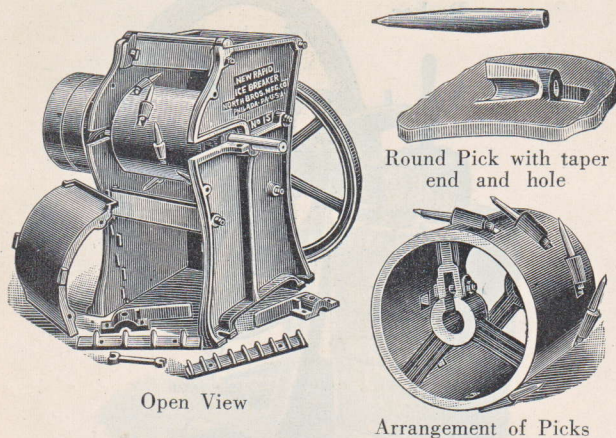


For Hand Use
Galvanized All
Over to Prevent
Any Rust.

No. 108. For Hotels, Restaurants, Ice Cream Makers, etc. Opening for ice is 8 x 6 inches. Capacity over half ton per hour for hand use. It runs easily. Cylinder is 3-inch diameter and has eight picks, so arranged that one after the other strikes the ice. Picks are of high grade cast steel, ground and tempered. Easily removed for sharpening when needed. Very little fine or shaved ice is cut, it being broken into pieces the size of walnuts, thus avoiding waste.

Height, 17 inches; width (including handle on fly wheel), 15 inches; depth, front to back, 13 inches. The Fly Wheel is 13-inch diameter. A galvanized sheet iron box is included to hold ice broken, and measures 12 inches long, 9½ inches wide and 6½ inches deep. Packed one in a crate.

List Price, \$25.00 each

"NEW RAPID" ICE BREAKER

Uses—An efficient, durable and substantially built machine for breaking ice in small pieces, for use in freezing ice cream for confectioners, bakers, hotels, restaurants, and for packing fish, oysters, milk, etc., or where broken ice is required in quantities.

Efficiency—They are of highest efficiency and durability.

Cylinders—Made strong and heavy, clamped and keyed to steel driving shaft, which is supported in bearings of ample size and well babbitted.

Picks—So placed on cylinder that they strike one after another in different places, cutting successively across the block of ice, so that the cut is continuous. The picks are made of best cast steel, drop forged, ground and tempered, and are of the most durable quality—interchangeable and no "fitting" is required.

The picks are made round and tapered at back to fit taper hole in cylinder. They were adopted in some of our Ice Breakers in 1905, and were so eminently satisfactory in practical use that they are now used in our entire line. The special advantage of these picks fitted in taper holes, is that they are readily removable from socket by striking back end, and yet are tightly held during the breaking of ice and do not fall out or become loose. Every blow of the pick against ice drives it tight in socket.

Frames—Strong and durable, providing for the easy removal of cylinder and shaft without taking frame apart, as shown in illustration in the Nos. 15, 21 and 28.

The frames are bolted together with strong bolts extending across width of machine and have lock nuts on end to insure against their becoming loose.

The side frames are closed tight at the bearings and thus prevent ice from passing through into pulleys, an important feature not found in other Breakers

Plates: Lower Plate in all except the No. 112 is fitted into slides, and can be used either at front or back of machine as is most convenient. The upper back plate in all except No. 112, is made to adjust toward or away from cylinder.

Combs: Two, fine and coarse, are furnished with each machine, also necessary wrenches. A handle to fit fly-wheel is also furnished to run Breaker by hand in an emergency.

Speed of Pulleys: These should run 150 revolutions per minute.

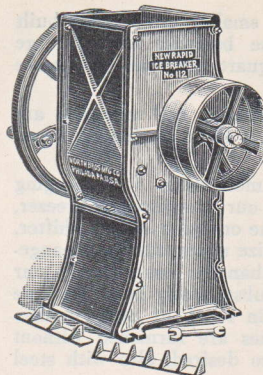
"NEW RAPID" ICE BREAKER**No. 112**

With Fly Wheels Only

Opening for ice.....12" x 10"
Floor to shaft.....26"
Weight350 lbs.
List Price\$90.00

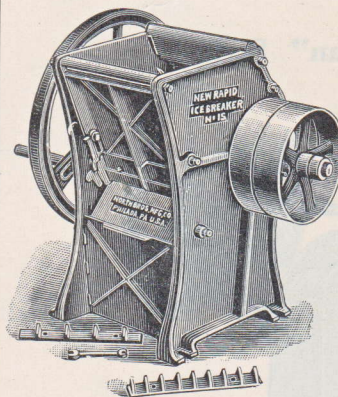
With Fly Wheels and Pulleys

Opening for ice.....12" x 10"
Floor to shaft.....26"
Tight & Loose Pulleys, 12" x 2½"
Capacity, per hour, about 2½ tons
List Price\$110.00

**No. 15**

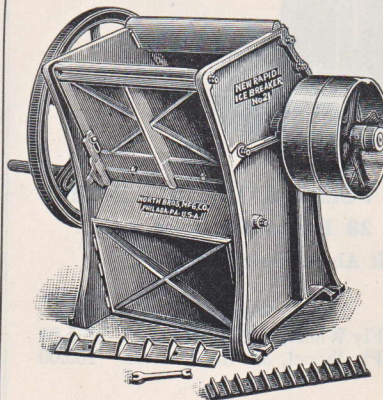
With Fly Wheels and Pulleys

Opening for ice, 15" x 14"
Floor to shaft.....34"
T. & L. Pulleys, 14" x 3½"
Capacity per hour, about 4 tons; weight, 645 lbs.
List Price\$170.00

**No. 21**

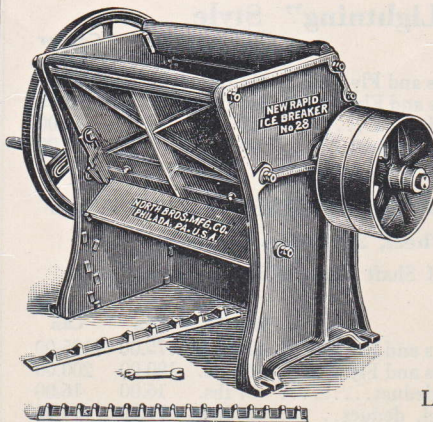
With Fly Wheels and Pulleys

Op'n'g for ice 21" x 14"
Floor to shaft.....34"
T. & L. Pulleys,
14" x 3½"
Capacity per hour,
about 6 tons
Weight, 760 lbs.
List Price\$200.00

**No. 28**

With Fly Wheels and Pulleys

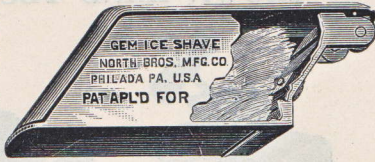
Opening,
28" x 14"
Floor to shaft,
34"
T. & L. Pulleys,
14" x 3½"
Capacity
About 12 tons
Weight,
1200 lbs.
List Price, \$275.00



JOHN H. GRAHAM & CO. DIRECT REPRESENTATIVES

"GEM" ICE SHAVE

Is a simple and handy tool for shaving and collecting ice from blocks



without removing the latter from the refrigerator or ice chest. When filled the lid is raised and contents emptied, as shown in cut. Shaved ice is desirable for a great variety of purposes, such as for Cooling Cantaloupes, Melons and other fruits, for use in Sick Rooms—dissolving quickly in the mouth, making Ice Poultices—being fine, it perfectly fits the parts to which applied; for Cooling Oysters on half shell, for Cooling Water, Wines or other liquids, for making Lemonade or iced drinks of any kind, for use at Soda Fountains, Bar Rooms and Restaurants.

Price, Per Dozen, \$.....

Packed in 1 and 3 dozen cases

"CROWN" ICE CHIPPER

The only simple, effective and cheap tool for chipping ice for use in freezers in place of the old-time bag and hatchet. Reduces ice quickly to small uniform pieces, size of peanuts. Makes it possible to freeze ice cream more rapidly and uniformly. Saves waste of ice, time, temper. A 20-pound block of ice can be reduced to small pieces with this Chipper in less than 5 minutes. It can also be used to great advantage to chip ice for soda fountains, bar rooms and restaurants. Price, Per Dozen, \$.....

Packed in 1 and 3 dozen cases

"LIGHTNING" ICE CHIPPER

An improvement on our "Crown" to do more rapid and effectual work.

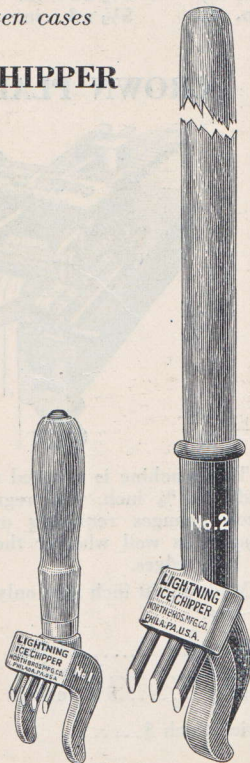
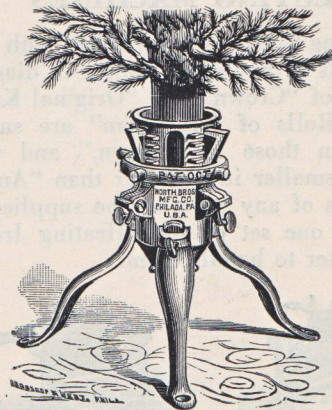
The teeth are made of hardened and tempered steel pins, having the ends beveled for cutting. The guard or guide is open to permit the chipped ice to escape freely.

Made in two styles: No. 1 for family use; No. 2, with handle, 48 inches long, for Confectioners, Hotels, Restaurants, etc., where considerable quantities of chipped ice are used.

Price, Per Dozen, \$.....

Packed, No. 1, in 1 and 3 dozen cases.

No. 2, in 1/2 and 1 dozen cases.

**"CROWN" CHRISTMAS TREE HOLDER**

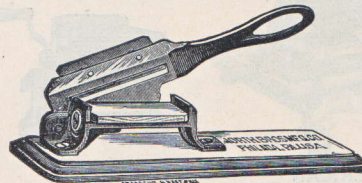
The only Tree Holder made that has stood the test of practical use for twenty-five years.

The usefulness of this article is obvious to anyone who has tried to arrange blocks, boxes or other appliances for holding Christmas Trees.

The Holder is made in two sizes, to hold 2-inch or 3-inch trees or less, and is so constructed that it will firmly clamp and hold any size tree that may be put in it. The legs are placed in the sockets and fastened by the small thumb screws; the ring-nut is turned downward, whereby the clamps are thrown outward. The tree is then set in the Holder and the ring-nut turned upwards until the clamps have a sufficiently tight hold. If desirable, the Holder can be fastened to the floor, etc., by means of small tacks or screws. Should the tree shrink or become loose in the Holder, a slight turn upwards of the ring-nut will tighten it again.

2 inch,
3 inch,

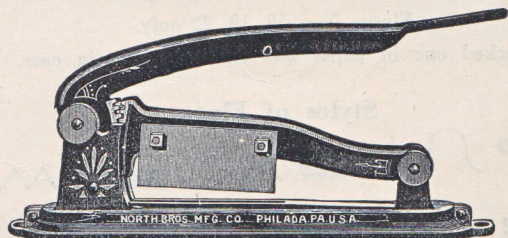
Per dozen \$.....
Per dozen \$.....

AMERICAN TOBACCO SHAVE

This tool is to make fine cut from plug tobacco, for smoking in pipes.

Shave can be changed to cut finer or coarser, by loosening the screws and moving the knife in or out, and moving the wooden block to suit the knife by means of the screw at the side. Width of knife is 3 inches. List Price, \$9.00 per dozen.

Packed 1 Doz. in Box. Weight, net 17 lbs., gross 24 lbs. Measurement, 13 3/4 x 11 1/2 x 8 inches.

AMERICAN TOBACCO CUTTER

For cutting plug tobacco. It has a knife 4 1/4 inches wide, and will cut with ease any thickness from 1 1/4 inches down, leaving a clean edge.

These Cutters are Japanned in black and handsomely ornamented. List Price, \$13.00 per dozen.

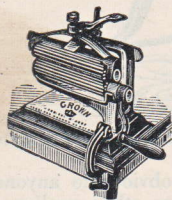
Packed 1 only in a box. Weight, net 5 5/8 lbs., gross 9 lbs. Measurement, 19 x 7 x 3 3/4 inches.

FLUTING MACHINES

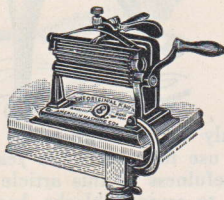
Each Fluting Machine is furnished with one pair of Brass Rolls of any styles shown in diagram.

The Rolls of "Crown" and "Original Knox" are alike. The Rolls of "American" are smaller in diameter than those in "Crown," and those of "Eagle" are smaller in diameter than "American."

Extra Rolls of any style can be supplied. Each machine has one set of four Heating Irons with Tongs or Lifter to handle them.



"CROWN"



"KNOX"

"Crown"

Sizes (Length of Rolls), $4\frac{1}{2}$, 6, 8 inches.

Flutes, any size, No. 10 to 160.

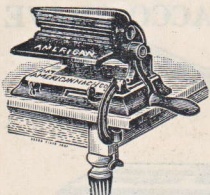
Packed one in wooden box.

"Original Knox"

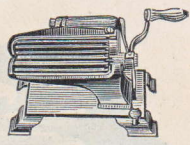
Sizes (Length of Rolls), $4\frac{1}{2}$, 6, 8 inches.

Flutes, any size, No. 10 to 160.

Packed one in wooden box.



"AMERICAN"



"EAGLE"

"American"

Sizes (Length of Rolls), 5, 6, 7 inches.

Flutes any size except No. 10.

Packed one in wooden box.

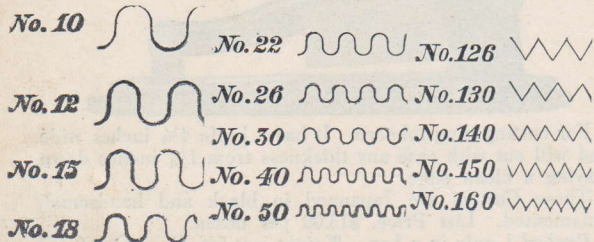
"Eagle"

Sizes (Length of Rolls), $3\frac{1}{2}$, $5\frac{1}{2}$ inches.

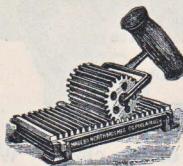
Flutes, Nos. 15, 18, 22 only.

Packed one in paper box and $\frac{1}{2}$ dozen in case.

Styles of Flutes



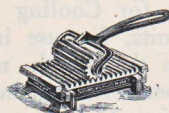
CROWN HAND FLUTERS



No. 1



No. 2



No. 3



No. 4

These are made in four styles, Nos. 1, 2, 3 and 4.

Finish: Nos. 1, 2 and 3 have the rolls and plate finely polished and nickel-plated. No 4 is polished but not plated. All parts not plated or polished are neatly japanned.

Stops: All are furnished with stops at each end of the plate to prevent the roll running off and tearing goods.

Plates: Nos. 1, 2 and 3 have the plate hinged to the base, and it does not require to be lifted off and laid aside to renew heating-irons.

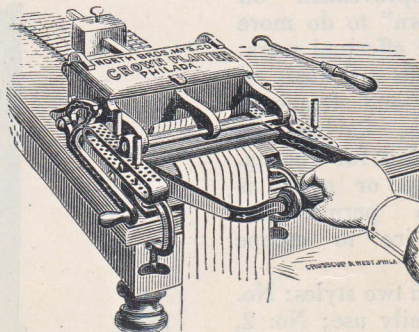
Irons: The heating irons are laid in a recess of the base, under the plate. Two irons are furnished with each fluter and a lifter to handle them.

Heating: In the No. 4 the plate and heater are in one piece, which is heated by simply placing it on the stove and when hot put back on the base.

Flutes: The flutes are alike in all and larger than No. 10 of Fluting machines.

Style	Size of Plate	Diam. of Roll	Price per doz.
No. 1,	7 x $3\frac{1}{4}$ in.	$2\frac{3}{8}$ in.	\$.....
No. 2,	7 x $3\frac{1}{4}$ in.	$1\frac{3}{8}$ in.	\$.....
No. 3,	$5\frac{1}{2}$ x 3 in.	$1\frac{3}{8}$ in.	\$.....
No. 4,	$5\frac{1}{2}$ x 3 in.	$1\frac{3}{8}$ in.	\$.....

CROWN PLAITING MACHINE



This machine is adapted to make plaits from $\frac{1}{8}$ inch in width to $\frac{3}{4}$ inch, with regular and irregular intermediate sizes, changes requiring one moment to make. Works equally as well whether the ruffle is hemmed at one edge or both edges.

Made in 10 inch size only, to plait goods 10 inches wide or less.

Net weight21 lbs.
Length13 inches
Depth $5\frac{3}{8}$ inches

Gross weight25 $\frac{1}{2}$ lbs.
Breadth8 $\frac{1}{4}$ inches
Cubic Feet0.22

Price, each \$.....

Packed one in a box.

"YANKEE" TOOLS

These pages illustrate some new Tools recently added to line:

Ratchet Bit Brace, No. 2100

Radio Tool Set, No. 105 and No. 106

Radio Hand Drill, No. 1431

There is also illustrated with these, Display Stands to bring these tools prominently before mechanics, and thus act as silent salesmen.

Display stands have recently been made for our **Plain Screw Drivers, Nos. 90 and 95**, and their use by customers has very largely increased their sales on these tools.

These display stands, while in the English language, will nevertheless be a valuable sales help where other languages are used, because, placed on the counter, or in show window, the tools on the stands are kept in sight of customers, to be admired, examined, and most important of all, purchased, and that most often by people who had never planned to make such a purchase.

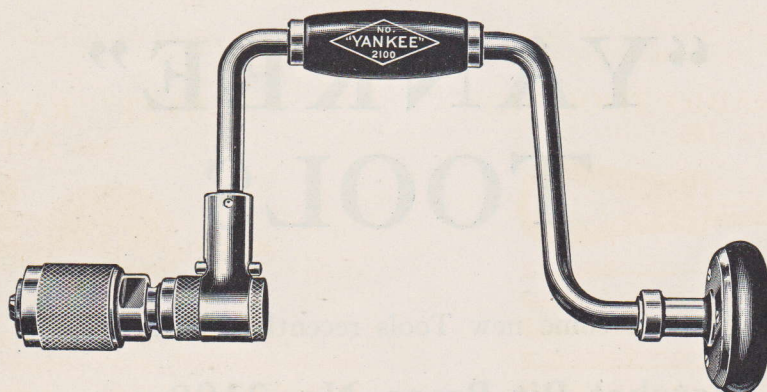
The name "YANKEE" on the tool you buy means
the utmost in quality, efficiency and durability.

"YANKEE" TOOLS
Make Better Mechanics

NORTH BROS. MFG. CO.
PHILADELPHIA, PA., U. S. A.

SALES AGENTS
JOHN H. GRAHAM & CO., INC.
113 CHAMBERS STREET
NEW YORK CITY

"YANKEE" Ratchet Bit Brace No. 2100



Made like a precision tool where the highest quality, accuracy, efficiency and durability is desired. Has the famous "Yankee" Ratchet, works easily and without noise, will not break.

Ratchet case is dust and moisture proof. Pawls of tool steel, hardened and tempered. Quick, positive shifter. Quick centering, ball bearing chuck, holds any bit, round, square or taper up to $\frac{1}{2}$ inch diameter accurately, and will not loosen. The hole in end of chuck is made to take Bit Shank $\frac{5}{8}$ inch across corners used in larger Augur Bits, but Chuck will not hold larger round shanks than $\frac{1}{2}$ inch diameter.

Handles of hard rubber, will not warp, shrink, crack or bind. Patented sweep handle eliminates excessive play. Handsomely polished and nickelplated.

Packed one only in cardboard carton inside paper box.

Sizes	8	10	12	14 in. Sweep
Weight, packed as above.....	4	4 $\frac{1}{8}$	4 $\frac{1}{4}$	4 $\frac{3}{4}$ lbs.
Weight, net	3	3 $\frac{1}{8}$	3 $\frac{1}{4}$	3 $\frac{1}{2}$ "
Price, each.....	\$8.00	\$8.20	\$8.40	\$8.75

Discount.....

"YANKEE" DEMONSTRATOR

Is an entirely new and practical method to display and sell this Brace. Placed on the counter, mechanics will

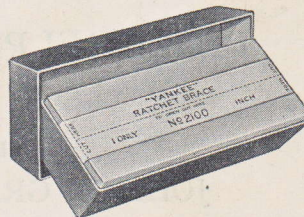
See it — Try it — Buy it

It is made of sheet steel, handsomely finished in bright, attractive colors. The base is wood, mahogany finish. Made collapsible to pack in heavy cardboard carton.

This demonstrator is furnished without charge with three "Yankee" Braces, any size, if specified on order. It is not sold or supplied under any other conditions.

"YANKEE" Double Packing

One Brace only in heavy cardboard carton, which is packed in regular paper box used for all other "Yankee" Tools.



Trying the Brace on the Demonstrator to see how easily the "Yankee" Ratchet works.

It saves time and pleases the customer.

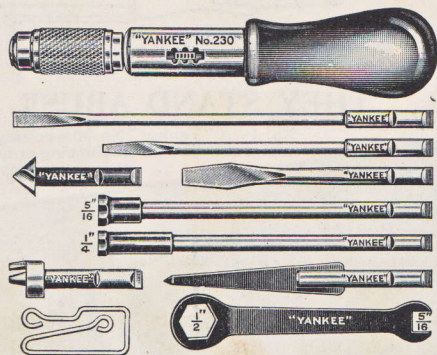
NORTH BROS. MFG. CO., PHILADELPHIA, PA., U. S. A.



"YANKEE" RADIO TOOLS

No expense has been spared in design, workmanship, materials or finish to make these tools equal to all other "YANKEE" tools, conceded to be the finest in the world.

"YANKEE" RADIO TOOL SET No. 105



This is the handiest set of tools ever made for radio work.

It takes care of all screws; reams and countersinks holes; runs up nuts; bends and loops wire, and is provided with a wrench for jack and $\frac{5}{16}$ " hex or square nuts. A touch on the ratchet shifter gives right and left ratchet and rigid adjustment.

Many have remarked, "That's not only a wonderful set for building, adding on to or adjusting Radio Sets, but is a great little set of tools to have around the house."

No. 105 Set Contains

No. 230 Ratchet Screw Driver ($6\frac{1}{4}$ " over all) holds all attachments.

Blades— $5\frac{1}{2}$ " x $\frac{3}{16}$ ", for long reach into box, between wires, etc.

— $3\frac{1}{2}$ " x $\frac{1}{8}$ ", for small screws on dials.

— $2\frac{1}{2}$ " x $\frac{1}{4}$ ", for heavy screws—putting up aerials, etc.

Countersink—for countersinking, for heads of screws.

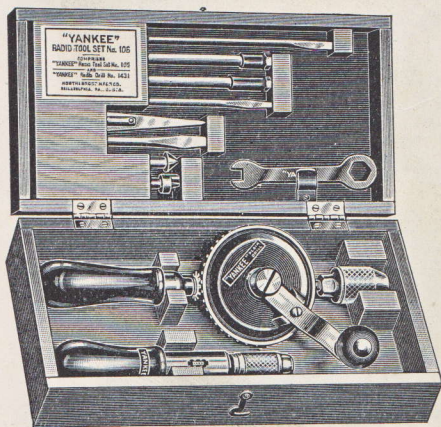
Sockets—(two) $\frac{1}{4}$ " x $\frac{5}{16}$ " hex, with 4" shanks. Cover all small nuts.

Reamer—for enlarging holes in panel from $\frac{1}{8}$ " to $\frac{1}{2}$ ".

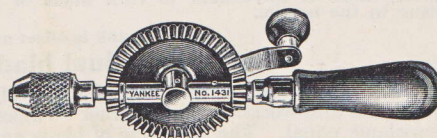
Wrench—one end, $\frac{5}{16}$ ", square or hex. Other, $\frac{1}{2}$ " hex for jacks.

Wire Bender—for making loops and bending wire.

Packed one set in cardboard box. Net weight, 1 lb.



"YANKEE" RADIO DRILL No. 1431



Specially designed for Radio Work. A beautifully balanced, small powerful drill, with a 4 to 1 ratio of gears for speed. Length, $9\frac{1}{2}$ inches.

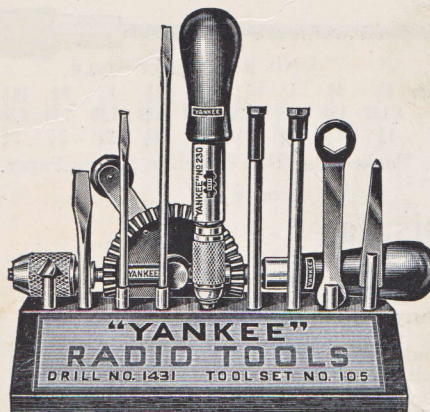
Special Radio chuck, $\frac{9}{32}$ " capacity to take largest drill usually supplied with Radio drill sets.

Packed one only in cardboard display box. Net weight, $1\frac{1}{2}$ lbs.

DISPLAY STAND (See illustration)

For Tool Set No. 105 and Radio Drill No. 1431

Furnished free with each order for $\frac{1}{4}$ doz. No. 105 Tool Sets, and two only 1431 Drills, but not otherwise, if specified on order.



This handsome mahogany finish display stand will attract attention and sell tools in any store frequented by Radio enthusiasts.

Display Stand packed one only in heavy cardboard carton. Weight, $1\frac{1}{4}$ lbs.

"YANKEE" RADIO TOOL SET No. 106

This combines Tool Set No. 105 and Radio Drill No. 1431, as described above. It makes a complete set of all "Yankee" Radio Tools. The handsome mahogany-finished tool chest in which it comes, has compartments for each tool, so all may be handily kept in order, when not in use.

Packed one in cardboard box. Net weight, $3\frac{3}{4}$ lbs.

LIST PRICES

No. 1431 Hand Drill, . . . each, \$2.90

No. 105 Radio Tool Set, " 3.10

No. 106 Radio Tool Set, " 8.50

No. 105 Separate Parts, viz:

Blades, each, per doz. 2.40

Reamer, . . . " 4.40

Sockets, each " 2.90

Countersink " 2.80

Wire Bender " 2.80

Wrench, . . . " 1.45

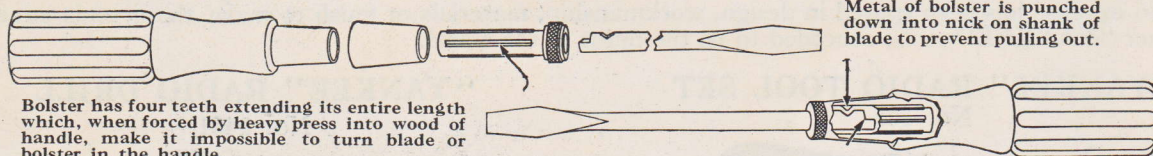
Handle and
Chuck only } " 16.40
No Bits }

Discount.....

NORTH BROS. MFG. CO., PHILADELPHIA, PA., U. S. A.

"YANKEE" PLAIN SCREW DRIVERS

CONSTRUCTION



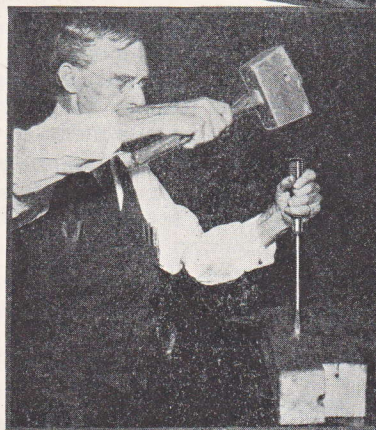
Bolster has four teeth extending its entire length which, when forced by heavy press into wood of handle, make it impossible to turn blade or bolster in the handle.

End of shank is offset and fits into offset of bolster to prevent turning.

Each individual blade tested twice before leaving factory

THEY STAND ABUSE

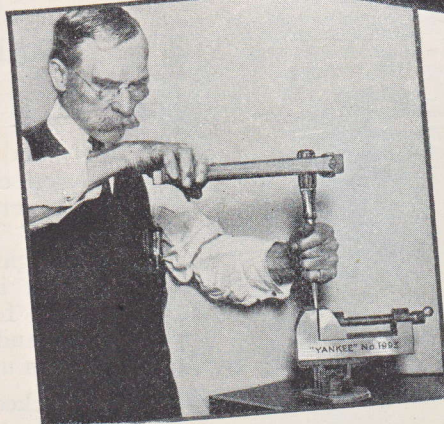
No. 1—A "Yankee" No. 90 is cutting off a strip of steel without chipping or marking the blade in any way.



No. 2—The same screw-driver was then driven into a four inch plank—cutting across the grain.



No. 3—The screw-driver driven through the plank without splitting or loosening the handle.



No. 4—The blade did not turn or loosen in the handle even with the powerful twist given it as shown in the photograph. Tremendous leverage will eventually twist and tear handle off above the ferrule. Portion of handle between bolster and ferrule, however, is still held firmly by teeth on bolster, and it is impossible to turn or loosen it, no matter how great the strain put on the handle.



No. 90 STANDARD STYLE

Sizes: length, blade	1½	2	3	4	5	6	7	8	9	10	12	15	inches.
Per doz.	\$3.60	3.60	4.00	4.70	5.80	6.60	7.70	8.80	9.60	10.80	12.60	16.90	List
Net Weight, per doz.	1	1½	1¾	2½	3¾	4	5¾	6	6½	8½	9¾	11½	Lbs.
Sizes:	18			24		30 inches (have double grip handles).							
Per doz.	\$24.00			28.00		32.00							
Net weight, per doz.	17½			21½		26							



No. 95 CABINET STYLE

Sizes: length, blade	2½	3½	4½	5½	6½	7½	8½	9½	10½	12½	15½	inches
Per doz.	\$3.60	4.00	4.60	5.20	5.80	6.40	7.10	7.70	8.50	9.70	11.60	List
Net Weight,	1½	1¾	1¾	1½	1½	2¼	2¾	2½	2¾	3¼	3¼	Lbs.

Packed One Half Dozen in Strong Paper Box

Discount.....

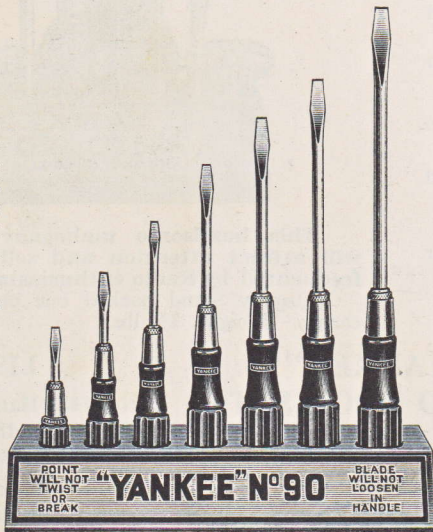
A Display Stand

Mahogany Finish

will be included free, with each small assortment order of No. 90 or No. 95 "Yankee" Screw Drivers specified below, but not otherwise, if mentioned on your order.

Placed on your counter, this little salesman will be on the job continually, quietly demonstrating these screw drivers to every person who enters your store.

This means greatly increased sales and profits on "Yankee" Tools, without any extra effort or expense.



Assortment No. 90

¼ Doz.	1½-in. Blade
½ Doz.	2 -in. Blade
¾ Doz.	3 -in. Blade
1 Doz.	4 -in. Blade
½ Doz.	5 -in. Blade
½ Doz.	6 -in. Blade
¼ Doz.	8 -in. Blade

Weight, 15 lbs.

Assortment No. 95

½ Doz.	2½-in. Blade
1 Doz.	3½-in. Blade
½ Doz.	4½-in. Blade
½ Doz.	5½-in. Blade
½ Doz.	6½-in. Blade
¼ Doz.	8½-in. Blade

Weight, 9 lbs.

Including stand, packed in carton

List Price, \$17.80

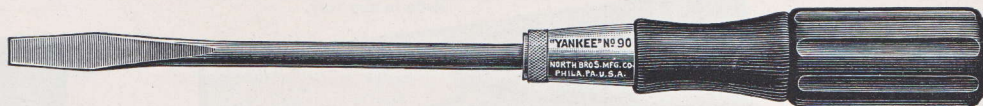
\$15.38

Discount as above.

NORTH BROS. MFG. CO., PHILADA., PA., U. S. A.

"YANKEE" PLAIN SCREW DRIVERS

That Even Stand Abuse



No. 90. Standard Style. For general use. The width and thickness of the point of the blade, also diameter of blade stock, grow greater in proportion as length of the blade increases.



No. 95. Cabinet Style. For small screws on electrical, cabinet and similar work. Blades are narrow and never wider than at the point, in order to follow the screw into a deep hole. Diameter of blade and size of handle is same for all lengths. These light blades are stiffened by slight tempering the entire length.

With Points That Will Not Twist or Break

Because the steel is just exactly right for the purpose;—special driver steel, the very best to be had. Thirty-five years of making blades has taught us how to harden and temper them so they will stand up,—not too brittle, nor soft. And then we make dead sure of it;—**every point** gets **two** severe twisting tests. This takes out any blade having flaws or weakness.

With Comfortable Handles Which Do Not Split

These are made from close grained, hard wood, each one checked for clearness and straight grain. They give a firm and easy grip because evenly grooved, smoothly finished, and well proportioned. Notice they are solid in the grip section to resist a blow without splitting; not weakened by drilling out.

With Blades That Will Not Loosen in Handle

How satisfying always to have the blade just like one piece with the handle. No turning and no shaking under hard work, but put in to stay solid. The clever "Yankee" construction, as explained below, makes certain the blade will remain tight as long as you use it. Even quite some hammering on the handle doesn't loosen or split it.

With a Handsome Appearance Which Tells Their Quality

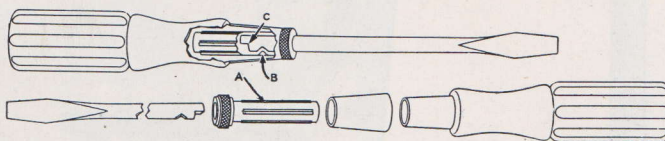
They look good;—sturdy, well-balanced, clean-cut, reliable and every one alike. A dead black, velvet-like finish is put on the handles that wears well. The blades, also the ferrules, are finely polished. We are proud of these drivers and take pains with every operation.

(A) Bolster has four teeth extending its entire length, which when forced by heavy press into wood of handle makes it impossible to turn blade or bolster in handle.

(B) Metal of bolster is punched down into nick on shank of blade to prevent pulling out.

(C) End of shank is offset and fits into offset of bolster to prevent turning.

Notice This Unique Construction



No. 90. Plain Screw Drivers

No.	Length Blade Inch	Lgth. over all Inch	Width at Point Inch	Wt. lbs. Per doz.
90/1½	1½	5¼	$\frac{7}{32}$	1
90/2	2	5¾	$\frac{7}{32}$	1¼
90/3	3	6¾	$\frac{7}{32}$	1½
90/4	4	9¼	$\frac{1}{4}$	2¾
90/5	5	10½	$\frac{5}{16}$	4
90/6	6	11¾	$\frac{1}{16}$	4¼
90/7	7	13	$\frac{3}{8}$	6
90/8	8	14	$\frac{3}{8}$	6¼
90/9	9	15	$\frac{7}{16}$	6¾
90/10	10	16½	$\frac{1}{2}$	9½
90/12	12	18½	$\frac{1}{2}$	10½
90/15	15	21¾	$\frac{17}{32}$	13½

With Double Grip Handles

No.	Length Blade Inch	Lgth. over all Inch	Width at Point Inch	Wt. lbs. Per doz.
90/18	18	27	$\frac{9}{16}$	20
90/24	24	33	$\frac{9}{16}$	23¾
90/30	30	39	$\frac{9}{16}$	29

No. 95. Plain Screw Drivers

No.	Length Blade Inch	Lgth. over all Inch	Width at Point Inch	Wt. lbs. Per doz.
95/2½	2½	6⅞	$\frac{3}{16}$	1¼
95/3½	3½	7¾	$\frac{3}{16}$	1½
95/4½	4½	8¾	$\frac{3}{16}$	1½
95/5½	5½	9¼	$\frac{3}{16}$	1¾
95/6½	6½	10¼	$\frac{3}{16}$	1¾
95/7½	7½	12	$\frac{7}{32}$	2½
95/8½	8½	13	$\frac{7}{32}$	2½
95/9½	9½	14	$\frac{7}{32}$	2¾
95/10½	10½	15	$\frac{7}{32}$	3
95/12½	12½	17	$\frac{7}{32}$	3¼
95/15½	15½	20	$\frac{7}{32}$	3¾

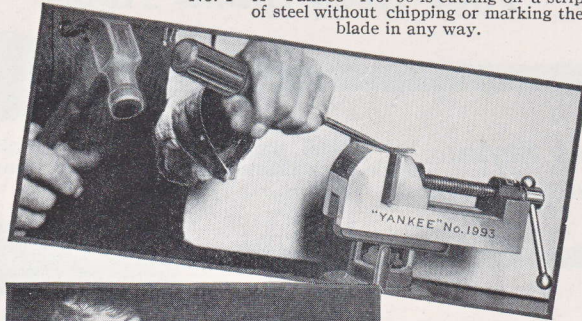
Specify length of **Blade** in ordering. Do not give length overall.

Packing is six in a box for all sizes, except No. 90-15", 18", 24", 30", which are three in a box.

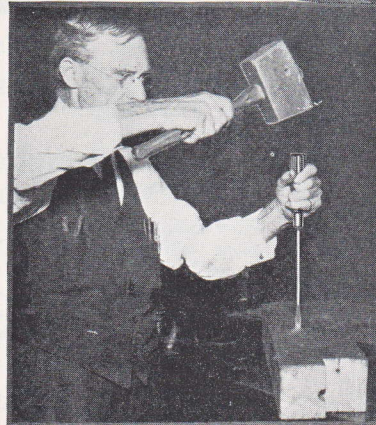
(OVER)

They Prove Their Quality

No. 1—A "Yankee" No. 90 is cutting off a strip of steel without chipping or marking the blade in any way.



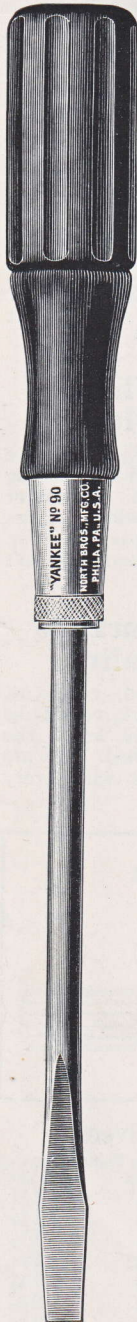
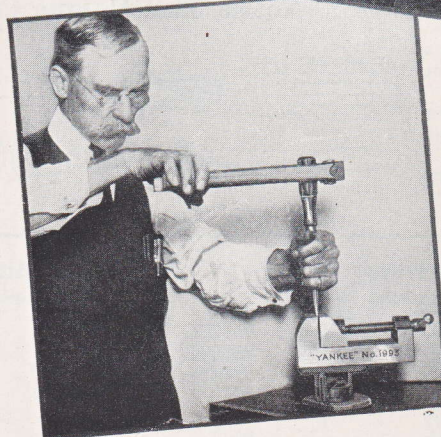
No. 2—The same screw-driver was then driven into a four-inch plank—cutting across the grain.



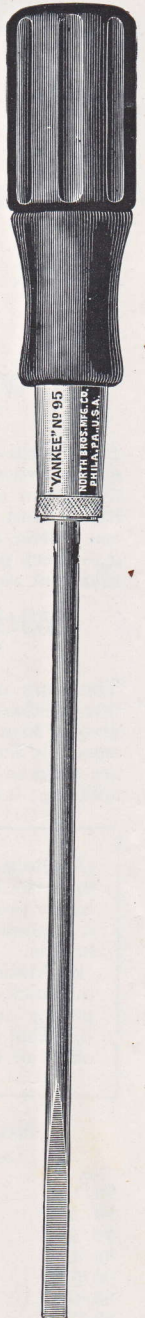
No. 3—The screw-driver driven through the plank without splitting or loosening the handle.



No. 4—The blade did not turn or loosen in the handle even with the powerful twist given it as shown in the photograph. Tremendous leverage will eventually twist and tear handle off above the ferrule. Portion of handle between bolster and ferrule, however, is still held firmly by teeth on bolster, and it is impossible to turn or loosen it no matter how great the strain put on the handle.



No. 90



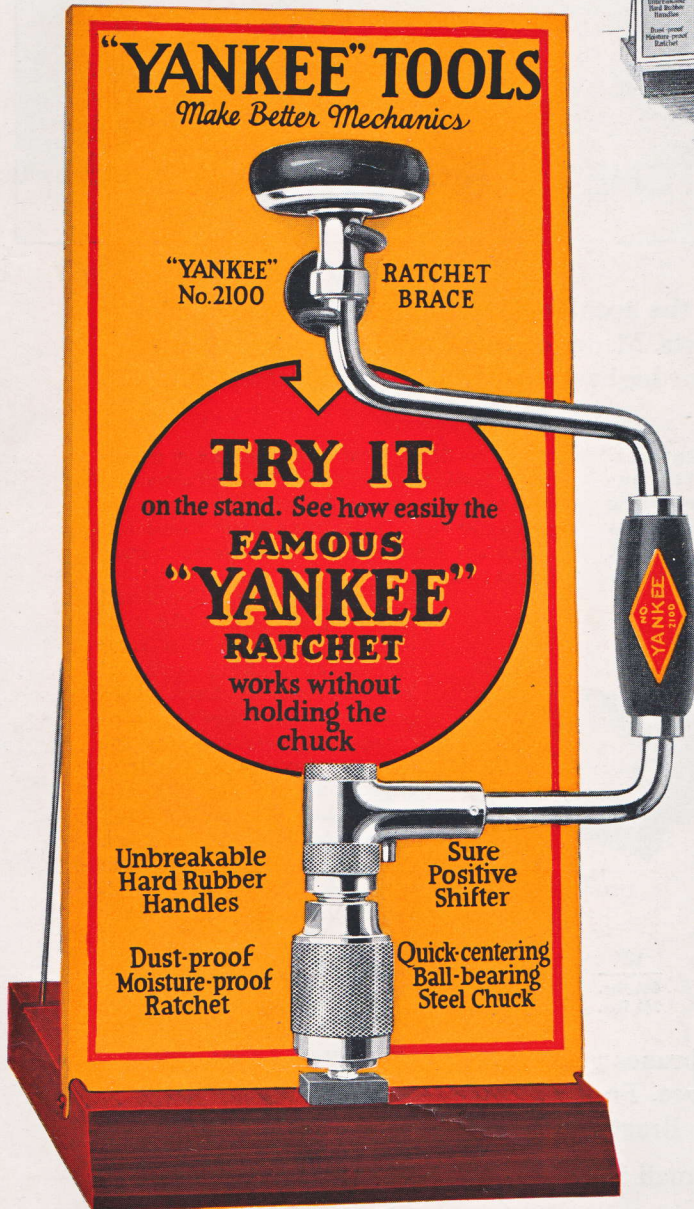
No. 95

"YANKEE" TOOLS

Make Better Mechanics

"YANKEE" Demonstrator

Trying the Brace on the Demonstrator to see how easily the "Yankee" Ratchet works.



"YANKEE" TOOLS
Make Better Mechanics

"YANKEE"
No. 2100

RATCHET
BRACE

TRY IT
on the stand. See how easily the
**FAMOUS
"YANKEE"
RATCHET**
works without
holding the
chuck

Unbreakable
Hard Rubber
Handles

Dust-proof
Moisture-proof
Ratchet

Sure
Positive
Shifter

Quick-centering
Ball-bearing
Steel Chuck

*They see it!
They try it!
They buy it!*

There has never been a Brace like the "Yankee." Every dealer will want to display it.

It is made like a precision tool for those who appreciate that paying a little more for the highest quality, efficiency, accuracy, and durability is a wise investment.

Such a tool well displayed is half sold

B U T

if automatically *demonstrated* to the customer is more frequently sold at the minimum cost of time to the dealer,

A N D

often sold when the man behind the counter would fail because not equipped to demonstrate so convincingly.

The "Yankee" Demonstrator, something altogether new in tool display, has been created to accomplish this.

Slip the Brace on the Demonstrator (no locks or catches) and anyone can actually try its wonderful "Yankee" ratchet, which works like a watch, yet is unbreakable.

You can secure the Demonstrator, free of charge, with three Braces; and given eight inches on *your counter*, it will work wonders for your Brace sales!

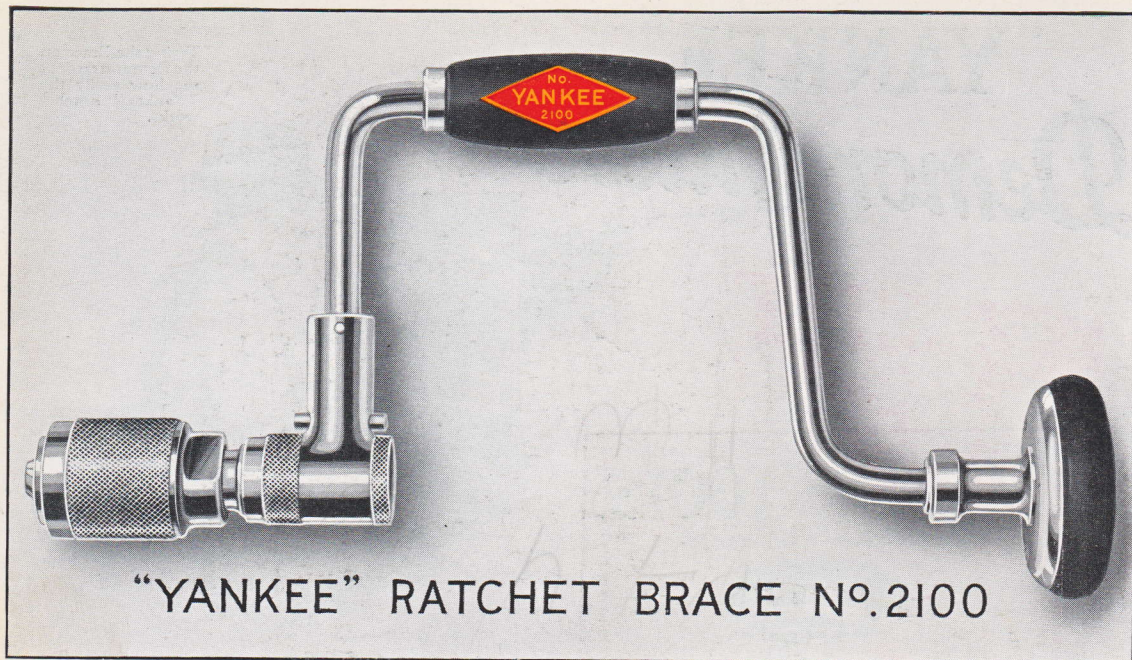
LET THE USER SELL HIMSELF!

Patent Applied For © 1925
North Bros. Mfg. Co., Philadelphia, U.S.A.

Weight, Demonstrator only,
packed for shipment, 8½ lbs.

"YANKEE" TOOLS *Make Better Mechanics*

(OVER)



"YANKEE" RATCHET BRACE N^o.2100

What a fine car is to the automobile industry, the "Yankee" Ratchet Brace is to tools. Made for those who appreciate that to pay a little more for highest quality is a wise investment.

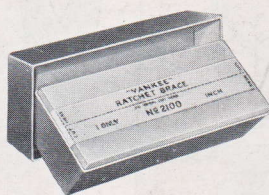
Ratchet — Famous "Yankee" Ratchet. Made to work like a watch, yet unbreakable. No need to hold the chuck on ratchet movement. Dust-proof! Moisture-proof! Quick, positive shifter. Ratchet pawls, tool steel, hardened and tempered.

Chuck — New, patented, quick centering "Yankee" Chuck. Holds any bit (Round, Square, Taper) accurately and *won't loosen*. Ball Bearing. Two jaw. Capacity, 1/2 inch.

Handles — Hard rubber. Won't warp, shrink, crack or bind. Top handle steel clad, ball bearing. Sweep handle held by patented method; keeps caps in place and eliminates excessive play.

Finish — Made and finished like a precision tool (with "Yankee" in red moulded on top handle and handsome transfer on grip handle). The beauty of the "Yankee" Ratchet Brace reflects its perfect construction.

New Packing — Jobbers and retailers, as well as the customer, appreciate this new method of packing—original with "Yankee." Each Brace (one only) is packed in sealed cardboard carton, passed for shipment by parcel post and express authorities. This is packed in a regular "Yankee" green box with orange label. Always in good condition for stock,—shipping or handing to the consumer.

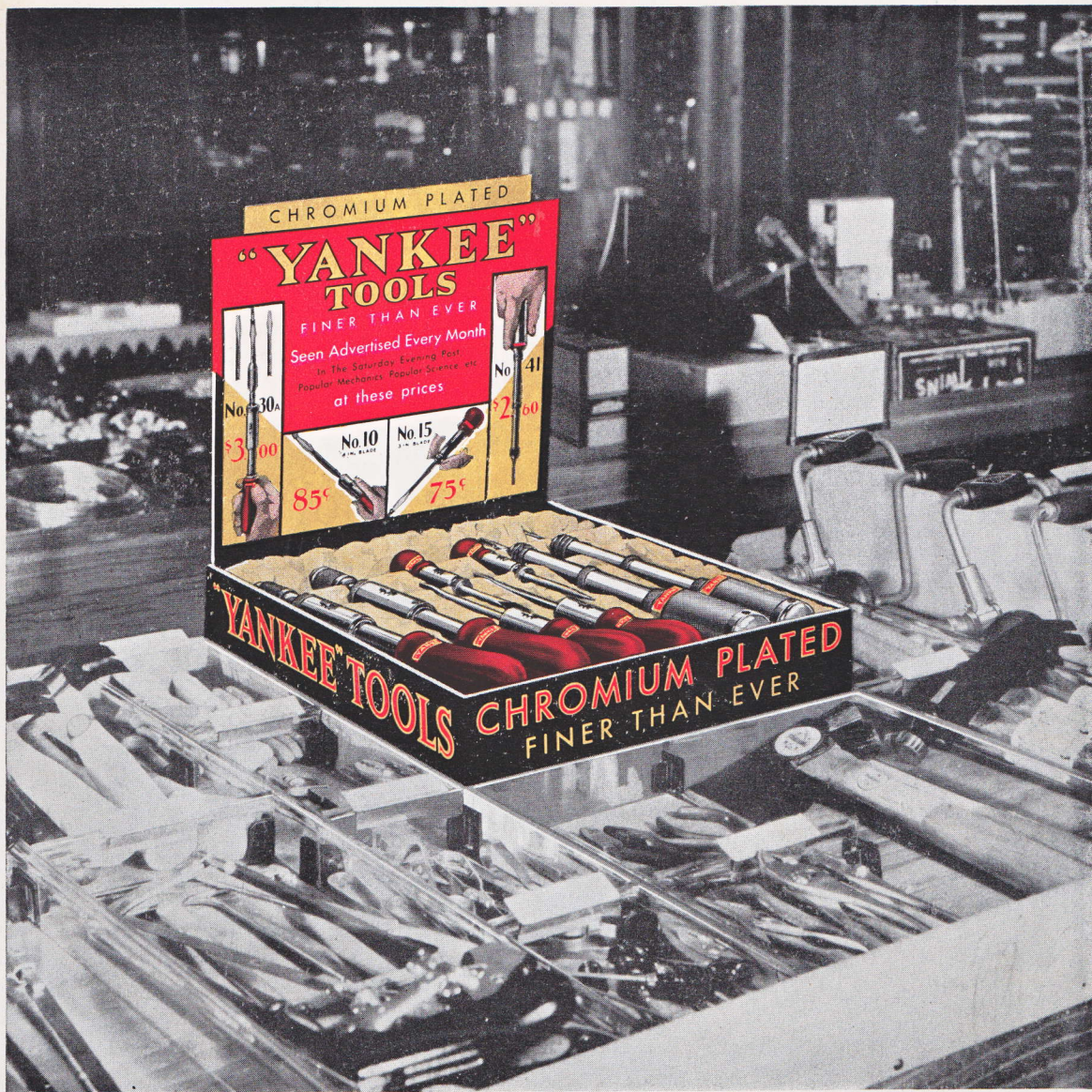


New "Yankee"
DOUBLE Packing.

8"	10"	12"	14"	Size
4 lbs.	4 1/8 lbs.	4 1/4 lbs.	4 3/4 lbs.	Packed as above
3 lbs.	3 1/8 lbs.	3 1/4 lbs.	3 1/2 lbs.	Net Weight

No matter what other braces you stock, "Yankee" No. 2100 will create a market of its own. The Demonstrator furnished FREE, if specified with three Braces, will find the market for you.

Only one style—small investment—quick turnover.



INCREASED SALES — *Decreased Selling Expense*

Here is a display, 9½" x 12" table space, designed by "Yankee" to do two things the hardware dealer today must do: sell more fine merchandise; and make these good sales at less expense! Display will do it on fine tools no less than on pick-up items. This "Yankee" Display has everything to back up that proposition: "Yankee" prestige and "Yankee" national advertising—plus

(OVER)

"Yankee" new chromium-plated tools, in a Table Tray of such attractiveness that no customer can escape it! There is hardly a mechanic, or household, or farm, but is in need of additional time- and labor-saving tools. The modern merchandising way to turn this need into actual sales in your store, is to show such tools as "Yankee" arranged in an outstanding display.

PRINTED IN U. S. A.

A display
of Chromium-Plated
"Yankee" Tools for
the dealer's table



© 1931
North Bros. Mfg. Co.
Philadelphia, Pa., U.S.A.
Printed in U. S. A.

THE finest of fine tools,
made finer still! And
arranged in a display that
will sell more tools, sell
them quick and easy, and
make more profit for you.

"YANKEE" Display Box No. 1		
No. 30-A	Spiral Drivers Standard Size	2 only
No. 41	Automatic Push Drill	2 only
No. 10	Ratchet Driver 4" blade	2 only
No. 15	Ratchet Driver, 3", with Thumb-turn	2 only

Dealers' Price, per unit _____

Display Box shipped with tools as illustrated.
Protected by carton. Weight, 5 lbs., 9 oz.

"Yankee" Tools are not sold to catalog houses, mail-
order or chain stores—either directly or indirectly;
nor are they being supplied under private brands.

(OVER)

"YANKEE" Spiral Screw Drivers

These drive or draw screws by pushing on the handle or by a ratchet movement, or they can be made rigid as an ordinary screw driver. The movement is changed instantly by a simple shifter. Spindle can be locked closed. Three bits of different sizes furnished with each driver; of extra high quality steel and thoroughly tested. Metal parts nickel plated; hardwood handle, polished.



No. 30A, standard size; No. 31A, heavy style for big screws.



No. 35 for small screws only; much lighter and more sensitive than No. 30A. Used on electrical and similar work. Bits have straight sides to follow screws into deep holes in insulators, etc. Pocket size. Set of extra long bits can be supplied for this tool.



Quick Return Style—Same as drivers above, but a spring added in the handle. Spring pressure keeps blade in screw slot and pushes handle back after each stroke. So driver can be used with one hand, if other is holding work or cannot reach. Quicker, handier and easier in use than other style. Bits and attachments same for both styles.

No.	Length with Bit, closed	Weight, lbs. Per doz.	
30A	13	12	.....
31A	16 $\frac{3}{4}$	18 $\frac{3}{4}$	.....
35	9 $\frac{7}{8}$	7 $\frac{1}{2}$	.....
130A (Quick Return)	14 $\frac{3}{4}$	12 $\frac{3}{4}$	.....
131A	" "	20 $\frac{1}{4}$	.....
135	" "	7 $\frac{1}{2}$	.....

Attachments

For "Yankee" Spiral Screw Drivers



Countersink



Screw Holder Bit



Socket Bit

Chuck and Drill Points

In ordering attachments be careful to give size and style of Spiral Driver in use. The shanks are same diameter as regular bits where they fit in chuck of driver. All attachments dozen in a box.

No. Attachment	Diam. Shank	Fits Drivers Nos.
30	$\frac{9}{32}$	30A, 130A, 20-2
31	$\frac{5}{16}$	31A, 131A, 20-3
35	$\frac{3}{32}$	35, 135, 20-1

Chuck and Drill Points used in place of bit, make Spiral Driver into an automatic drill for wood. Set of points and a chuck in wood box.

No.	No. Points with Chuck	Range of Sizes in Set	Wt. lbs. Per doz.	
30	8	$\frac{1}{16}$ to $\frac{11}{64}$	1 $\frac{1}{4}$	.....
31	8	$\frac{1}{8}$ to $\frac{11}{64}$	1 $\frac{1}{4}$	.....
35	3	$\frac{1}{16}$ to $\frac{3}{32}$	$\frac{1}{2}$	.....

Countersinks and Screw Holder Bits. Sizes 30, 31, 35.

Socket Bits—Two Styles; for both square and hex nuts as shown, or for hex only. Give style, width of nuts across flats and No. of driver.

No. 30— $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$ in. across flats.
No. 31— $\frac{1}{2}$, $\frac{3}{8}$, $\frac{7}{16}$, $\frac{1}{2}$, $\frac{9}{16}$, $\frac{5}{8}$ in. across flats.
No. 35— $\frac{3}{16}$ Hex. only, $\frac{1}{4}$, $\frac{5}{16}$

"YANKEE" Ratchet Screw Drivers



Save time and labor. No tiresome grip-and-let-go movement necessary. Right-hand Ratchet, Left-hand Ratchet and Rigid adjustments. Quickly changed by sliding shifter. Every blade given two severe twisting tests. Polished hardwood handles. Polished blades and nickled ratchet case.

Both styles alike, except shifter of No. 10 moves lengthwise of blade, and No. 11 moves crosswise of blade.

No.	(or No.)	Length Blade Inch	Wt. lbs. Per doz.	
10/2	11/2	2	1 $\frac{1}{4}$	.....
10/3	11/3	3	3	.....
10/4	11/4	4	3 $\frac{1}{2}$	.....
10/5	11/5	5	3 $\frac{1}{2}$	.....
10/6	11/6	6	4 $\frac{5}{8}$	.....
10/8	11/8	8	5 $\frac{3}{8}$	.....
10/10	11/10	10	7 $\frac{1}{2}$	.....
10/12	11/12	12	7 $\frac{3}{4}$	.....



No. 12, has heavy, stub blade and full-grip, hardwood handle. Right and left hand ratchet and rigid adjustments, with shifter moving around barrel.

No.	Size Blade Inch	Length over all Inch	Wt. lbs. Per doz.	
12	$\frac{5}{16} \times 1\frac{1}{8}$	5 $\frac{3}{4}$	3 $\frac{3}{4}$	.....



No. 15, light driver for fast work on small screws. All lengths are $\frac{3}{16}$ inch diameter. Have right and left hand ratchet and rigid adjustments. Knurled washer attached to blade for starting screw quickly with thumb and finger, without moving handle. Six in a box.

No.	Length Blade Inch	Entire Length	Wt. lbs. Per doz.	
15/2	2	4 $\frac{7}{8}$	1 $\frac{3}{8}$	.....
15/3	3	5 $\frac{7}{8}$	1 $\frac{1}{2}$	.....
15/4	4	6 $\frac{7}{8}$	1 $\frac{3}{4}$	.....
15/5	5	7 $\frac{7}{8}$	1 $\frac{3}{4}$	.....
15/6	6	9 $\frac{3}{4}$	2	.....
15/8	8	11 $\frac{1}{4}$	2 $\frac{1}{4}$	.....

"YANKEE" Automatic Drills

For rapidly boring holes in wood by pushing down on the handle, which is forced back by a spring. The drill point revolves backward on up stroke of handle, clearing the chips and freeing the point. Points are held in chuck so they cannot be pulled out.

Drill made of brass and steel, the outside nickel plated and polished. The handle is a magazine for holding the drill points. It is quickly closed and locked, and when unlocked the drill points are forced up into plain sight. Eight drill points are included with each drill: $\frac{1}{16}$, $\frac{5}{64}$, $\frac{3}{32}$, $\frac{7}{64}$, $\frac{1}{8}$, $\frac{9}{64}$, $\frac{5}{32}$, $\frac{11}{64}$ inch diameter. Extra points in wood boxes, either sets of eight, or dozen of one size.



No. 41. Capacity, holes $\frac{1}{16}$ to $\frac{11}{64}$ inches diameter. Length including drill point 11 $\frac{3}{8}$ inches. Weight, per doz., 8 lbs.



No. 44. Capacity, holes $\frac{1}{16}$ to $\frac{11}{64}$ inches diameter. Tension of spring is adjustable by turning cap on handle, making it light for small drills or soft wood and stiff for large drills or hard wood. Saves points and works better. Weight, per doz., 9 lbs.

"YANKEE" Plain Screw Drivers Standard Style



A superior quality driver. Blades of extra fine, special grade steel; every point given two severe turning tests before shipment. Selected hardwood handles finished in dead black, grooved and shaped for grip and comfort. Fastening of blades in handles by unique method, without pins; cannot loosen in use or even the usual abuse. Blades and ferrules finely polished. An extra strong, durable, well balanced tool. 18, 24 and 30-inch have double grips. Six in a box from 2 to 12 inch; larger sizes, three in a box.

No.	Length Inch	Blade Lgth. over all Inch	Wt. lbs. Per doz.	
90/1½	1½	5¼	1	.....
90/2	2	5¾	1¼	.....
90/3	3	6¾	1½	.....
90/4	4	9¼	2¾	.....
90/5	5	10½	4	.....
90/6	6	11¾	4¼	.....
90/7	7	13	6	.....
90/8	8	14	6¼	.....
90/9	9	15	6¾	.....
90/10	10	16½	9½	.....
90/12	12	18½	10½	.....
90/15	15	21¾	13½	.....
90/18	18	27	20	.....
90/24	24	33	23¾	.....
90/30	30	39	29	.....

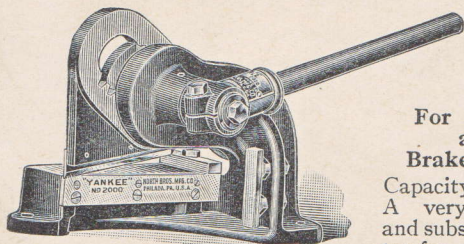
Cabinet Style



Same as standard style above, except light, slim blades. All lengths have about same size points. Blade same width all way back and slightly tempered entire length. Six in a box.

No.	Length Inch	Blade Lgth. over all Inch	Wt. lbs. Per doz.	
95/2½	2½	6⅞	1¼	.....
95/3½	3½	7¼	1½	.....
95/4½	4½	8¼	1½	.....
95/5½	5½	9¼	1¾	.....
95/6½	6½	10¼	1¾	.....
95/7½	7½	12	2½	.....
95/8½	8½	13	2½	.....
95/9½	9½	14	2¾	.....
95/10½	10½	15	3	.....
95/12½	12½	17	3¼	.....
95/15½	15½	20	3¾	.....

"YANKEE" Cutter No. 2000



For Belting and Brake Lining

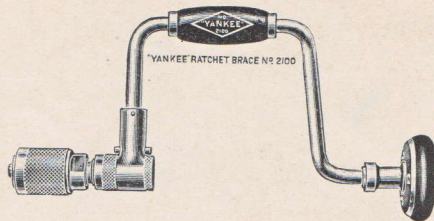
Capacity, ¾ x 6 ins. A very powerful and substantial cutter for quick, clean and easy cutting of

Brake Lining and Belting of all kinds up to 6 in. wide and ¾ in. thick. Not intended for cutting metals.

Rugged, well braced frame of cast iron, finished in dead black. Knife operated by lever, through rack and pinion, giving powerful but easy action. Both knives best grade steel, carefully ground and beveled, insuring durability and a clean cut. Adjustment to compensate for wear or regrinding. Adjustable guides on either side of knives to keep cut square with edge of work.

Net weight, 22 lbs. Packed for shipping, 29 lbs.

"YANKEE" Ratchet Brace



Has accurate, ball bearing chuck of new design with unusual grip. Firmly holds round, taper and square shank bits without loosening in use, yet releases easily. Capacity, ½ inch round shanks; square shanks ⅝ inch across corners. Dust-proof, moisture-proof ratchet works so easily, most bits start without holding chuck. Quick, positive shifter. Both handles of hard rubber, unbreakable and do not warp, shrink or swell. Ball bearing, steel clad head. Built and finished like a precision tool. Each brace packed in individual shipping carton.

No.	Diam. of Swing	Wt. lbs. Each in box	
2100/8	8	4	.....
2100/10	10	4⅛	.....
2100/12	12	4¼	.....
2100/14	14	4¾	.....

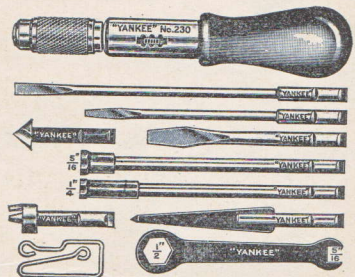
"YANKEE" Push Brace



No. 75. Takes square shank tools, like a bit brace. Bores holes, drives screws, taps holes, runs on nuts, etc. Pushing down on handle revolves tool like a Spiral Driver. Excels bit brace in speed on light classes of work and gets in narrow and awkward places. Has right and left hand movements and can be locked rigid by moving shifter. Will drive ⅝ inch auger bit in hard wood. No bits or tools furnished. Two jaw chuck, with drop forged jaws. Length over all, closed 16¼ inches. Stroke, 7 in.

"YANKEE" Radio Tool Sets

No. 105. Most handy and complete outfit for radio construction and repair. Ratchet driver handle takes 8 different tools, quickly interchangeable. These handle all screws; ream and countersink holes; run up nuts; bend and loop wire. There is also wrench for jack and hex or square nuts.



A touch on ratchet shifter gives right and left ratchet and rigid adjustments of driver. Set includes:—
No. 230 Ratchet Screw Driver, holds all attachments.

Blades—5½" x ⅜", for long reach into set.
3½" x ⅜", for small screws on dials.
2½" x ¼", for heavy screws.

Countersink—for countersinking, for heads of screws.

Sockets—(two) ¼" and ⅝" hex, with 4" shanks.

Reamer—for enlarging holes in panel from ⅜" to ½".

Wrench—⅝", square or hex, and ½" hex for jacks.

Wire Bender—for making loops and bending wire.

Packed one in a box, net weight, 1 lb.

Radio Tool Set No. 106

This combines Tool Set No. 105 shown above and Radio Drill No. 1431 in a handsome, mahogany-finished tool chest. Chest has hinged cover and compartments in which each tool is held securely, so all may be kept in good order. A handy and complete outfit. Net weight, 3¾ lbs.

“YANKEE” Bit Extension



No. 2150 and 2151

No. 2150 is made to follow $\frac{1}{8}$ inch bit or larger, No. 2151 to follow $\frac{7}{8}$ inch bit or larger.

Chuck is so constructed that it will accommodate a large range of square shanks and hold them securely.

This is a feature that is greatly appreciated, due to lack of uniformity in square shanks and consequent difficulty in holding them in many extensions.

Square shank is held firmly by socket. This is best possible means of holding bits in an extension, eliminating jaws which are of necessity light in limited space available and therefore liable to break.

A “YANKEE” feature prevents jamming of bit in socket.

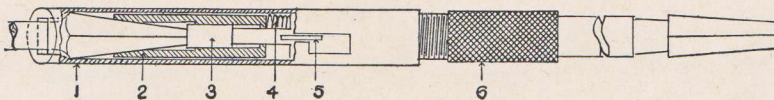
Taper end of shank is accurately machined.

Bits will not loosen and come out while in use.

Nickel plated throughout to prevent rusting with high polish on sleeve to add to appearance.

No. 2150 and No. 2151....	Size	15 inch	18 inch	21 inch	24 inch
No. 2150.....	Weight	15 oz.	1 lb. 2 oz.	1 lb. 4 oz.	1 lb. 7 oz.
No. 2151.....	Weight	1 lb. 8 oz.	1 lb. 12 oz.	1 lb. 14 oz.	2 lbs. 1 oz.

CONSTRUCTION



1—Sleeve 2—Socket 3—Center Stud 4—Clutch Spring 5—Sleeve Key 6—Nut

When Sleeve (No. 1) is turned to right in this position  square opening at end of sleeve is in line with square taper opening in socket (No. 2) Bit can then be inserted.

Sleeve (No. 1) is then turned to left and pulled down on shoulder of bit shank by turning nut (No. 6) to left.

As sleeve (No. 1) pulls bit down, it forces socket (No. 2) to slide down against clutch spring (No. 4) until end of bit is solid against center stud (No. 3).

Bit is now self-centered and held firmly between shoulder on end of sleeve (No. 1) and center stud (No. 3).

Socket (No. 2) holds bit from turning, but pressure behind socket from spring (No. 4) is not sufficient to jam socket on bit shank.

"YANKEE" Breast and Hand Drills

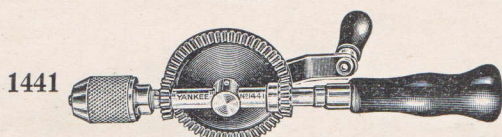
Plain—No Ratchet Movements

Sturdy tools, carefully made and handsomely finished for those needing a powerful, simple drill, where the more complete ratchet style is not necessary.



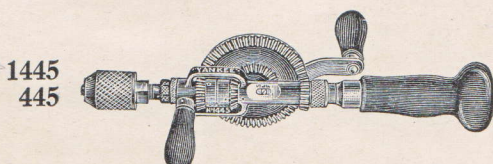
Single-speed plain Hand Drill with 3-jaw chuck for round shank tools only. Capacity up to $\frac{3}{8}$ inch. Malleable iron frame. Hardwood handle, detachable at milled nut; deep magazine inside for drills. Cut gears, large one $\frac{3}{8}$ inch diameter.

No.	Lgth. over all Inch	Wt. lbs. Each
1430	10 $\frac{3}{4}$	1 $\frac{1}{4}$



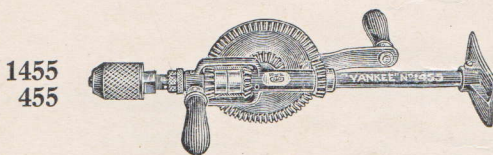
Single-speed plain Hand Drills with 3-jaw chuck for round shank tools only. Nickel plated steel frame and chuck. Solid grip-handle of polished hardwood. Two steel pinion gears support main driving gear.

No.	Capacity of Chuck Inch	Lgth over all Inch	Wt. lbs. Each
1431	$\frac{3}{8}$	9 $\frac{1}{2}$	1 $\frac{1}{2}$
1441	$\frac{3}{8}$	13 $\frac{1}{4}$	2 $\frac{1}{2}$



Double-speed plain Hand Drills; capacity up to $\frac{3}{8}$ inch. With 2-jaw chuck for square shank tools or 3-jaw chuck for round shank tools. Malleable iron frame; hardwood handle, detachable at milled nut; deep drill magazine inside. Side handle has screw driver bit. Handy sliding shifter instantly changes the speed or locks spindle for opening chuck. Steel spindle with adjustable ball bearing.

No.	Style Chuck	Lgth. over all Inch	Wt. lbs. Each
1445	3-jaw	15	3 $\frac{1}{2}$
445	2-jaw	15 $\frac{3}{4}$	3 $\frac{1}{2}$

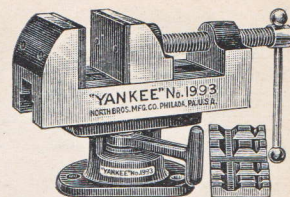


Double-speed plain Breast Drills. Capacity up to $\frac{1}{2}$ inch. With 2-jaw chuck for square shank tools, or 3-jaw chuck for round shank tools. Malleable iron frame; adjustable breast plate; screw driver bit on side handle. Handy sliding shifter instantly changes the speed or locks spindle for opening chuck. Steel spindle with adjustable ball bearing.

No.	Style Chuck	Lgth. over all Inch	Wt. lbs. Each
1455	3-jaw	16 $\frac{1}{2}$	5 $\frac{1}{2}$
455	2-jaw	17 $\frac{1}{4}$	5 $\frac{1}{2}$

"YANKEE" Vises

Two styles, with and without Swivel Base. Without base are handy tools on small drilling and milling machines, etc.



With base are unique, combination bench and machine vises interchangeable. Work gripped extra firmly at bench, with free swivel action and rigid lever lock. Just loosen one set screw, lift vise off the base without disturbing the work and use on machine or surface plate; then it can be returned to bench again.

Body and sliding jaw of cast iron with hardened steel faces. Can be set on either side, end or bottom, as all are accurately machined to square. Hardened steel, grooved block holds round or irregular work at any angle; firmly, yet without bruising.

Without Swivel Base

No.	Jaws, In— Open	Depth Inch	Width Inch	Height Inch	Length Inch	Wt. lbs. Each
991	1 $\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{1}{2}$	1 $\frac{1}{2}$	4 $\frac{5}{8}$	1 $\frac{1}{2}$
992	1 $\frac{1}{2}$	1 $\frac{1}{4}$	2	2 $\frac{1}{8}$	6	3 $\frac{1}{2}$
993	3 $\frac{1}{8}$	1 $\frac{7}{8}$	2 $\frac{3}{4}$	3	8 $\frac{3}{4}$	10 $\frac{1}{2}$
994	4	2 $\frac{1}{8}$	4	4 $\frac{1}{8}$	12 $\frac{1}{4}$	32

With Swivel Base

No.	Jaws, In— Open	Depth Inch	Width Inch	Height Inch	Length Inch	Wt. lbs. Each
1991	1 $\frac{1}{2}$	$\frac{7}{8}$	1 $\frac{1}{2}$	3 $\frac{1}{8}$	4 $\frac{5}{8}$	2 $\frac{1}{2}$
1992	1 $\frac{1}{2}$	1 $\frac{1}{4}$	2	4 $\frac{1}{8}$	6	5 $\frac{1}{2}$
1993	3 $\frac{1}{8}$	1 $\frac{7}{8}$	2 $\frac{3}{4}$	5 $\frac{3}{4}$	8 $\frac{3}{4}$	15 $\frac{1}{2}$
1994	4	2 $\frac{1}{8}$	4	7 $\frac{5}{8}$	12 $\frac{1}{4}$	45

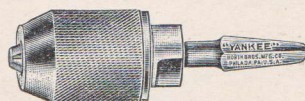
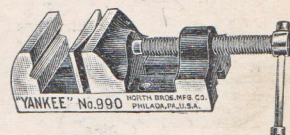
No. 990 Vise, for use on bench drills, or can be attached to bench. Main body and sliding jaw cast iron; removable swivel jaw for holding taper work is case-hardened steel. V groove in front jaw for clamping round work.

Base.....6 x 2 $\frac{3}{8}$ in.

Height.....2 in.

Jaws open....3 in.

Depth of Jaws 1 $\frac{3}{8}$ in.



With Bit Brace Shank

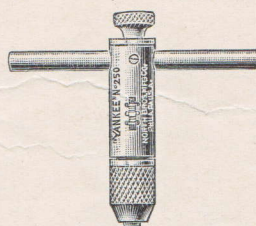


With $\frac{1}{2}$ in. Diam. Straight Shank

No.	Capacity Inch	Outside Diam. Inch
1593	$\frac{1}{4}$	1
1594	$\frac{3}{8}$	1 $\frac{3}{8}$
1595	$\frac{1}{2}$	1 $\frac{1}{2}$

Must specify either Straight or Bit Brace Shank

"YANKEE" Ratchet Tap Wrenches

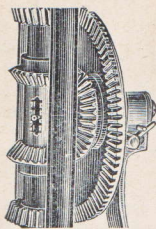


Work in close quarters, corners and inaccessible places. The ratchet is same as used in other "Yankee" Tools and is set for left hand, right hand, or rigid, by simply moving shifter. Cross bar held by friction lock, can be pulled out. Thumb nut at top can be used in starting tap. Countersunk hole in top for lathe or drill-press center. use where reach is needed. One in a box.

No.	Largest Tap Inch	Length Inch	Wt. lbs. | Per doz.
250	$\frac{3}{16}$	3 $\frac{1}{4}$	4 $\frac{1}{4}$
251	$\frac{1}{8}$	5	6 $\frac{3}{4}$
1251	$\frac{1}{8}$	13	10 $\frac{1}{4}$

"YANKEE" Ratchet Drills

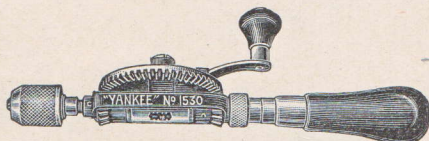
With Right and Left Hand and Continuous Ratchet Movements



"Yankee" Drills are unique and excel in the famous ratchet mechanism. Five different spindle movements are instantly available: plain drive, right hand ratchet, left hand ratchet, continuous ratchet; spindle locked for opening chuck. Simply slipping shifter on spindle from one notch to another makes the changes. Continuous ratchet is great convenience and time saver where crank can only be turned a

little, as it makes drill cut all the time on back and forward strokes. Change from fast to slow speed instantly made without taking drill from work.

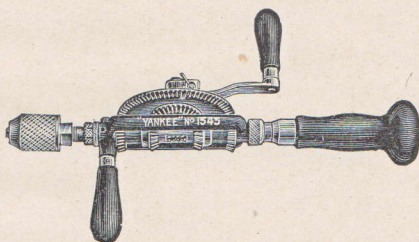
1530



Single-speed ratchet Hand Drill with three-jaw chuck for round shank tools only. Capacity up to $\frac{3}{8}$ inch. Malleable iron frame. Hardwood handle, detachable at milled nut, with deep drill magazine inside. Spindle, steel with adjustable thrust bearing. Cut gears, large one 3 inch diameter.

No.	Lgth. over all Inch	Wt. lbs. Each	
1530	10 $\frac{1}{2}$	1 $\frac{1}{4}$	.....

1545
545



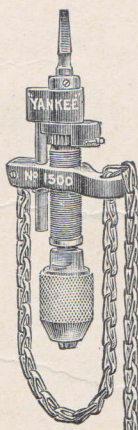
Double-speed ratchet Hand Drills. Capacity up to $\frac{3}{8}$ inch. Nickel plated chuck; two-jaw style for square shank tools or three-jaw style for round shank tools. Malleable iron frame. Hardwood handle, detachable at milled nut, with deep drill magazine inside. Side handle has screw driver bit. Steel spindle with adjustable ball bearing. Cut gears, large one 4 $\frac{1}{2}$ inch diameter.

No.	Style Chuck	Lgth. over all Inch	Wt. lbs. Each	
1545	3-jaw	16	4 $\frac{3}{4}$	.....
545	2-jaw	16 $\frac{1}{2}$	4 $\frac{1}{4}$	.....

"YANKEE" Chain Drills

Have automatic friction and ratchet feed which makes operation easy, prevents breakage of bits and saves much time. Taking up and releasing chain is quickly done by friction feed. No hand feeding. Ratchet feed for drilling is steady, positive and set correctly for all sizes of drills within capacity; needs no adjustment. It saves the small drills. Two styles of drills, either three-jaw chuck for round shanks or two-jaw chuck for square shanks. Capacity up to $\frac{1}{2}$ inch. Large steel feed screw, with ball bearing thrust. One in a box.

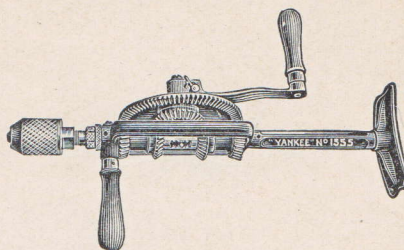
No.	Style Chuck	Wt. lbs. Each	
1500	3-jaw	3 $\frac{1}{4}$	.....
500	2-jaw	3 $\frac{1}{2}$	.....



"YANKEE" Ratchet Drills

With Right and Left Hand and Continuous Ratchet Movements

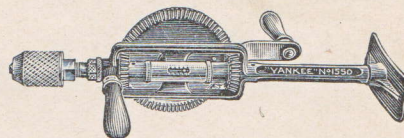
1555
555



Double-speed ratchet Breast Drills. Capacity up to $\frac{1}{2}$ inch. Nickel plated chuck; two-jaw style for square shank tools, or three-jaw style for round shank tools. Malleable iron frame with dead black finish. Breast plate adjustable, has polished face. Removable side handle has screw driver bit. Steel spindle has adjustable ball bearing. Carefully cut gears, large one 5 $\frac{1}{4}$ inch diameter.

No.	Style Chuck	Lgth. over all Inch	Wt. lbs. Each	
1555	3-jaw	17	6 $\frac{3}{4}$	.....
555	2-jaw	18	6 $\frac{7}{8}$	.....

1550
550



Single-speed ratchet Breast Drills. Capacity up to $\frac{1}{2}$ inch. Same styles and features as Nos. 1555 and 555 above, except are single instead of double-speed.

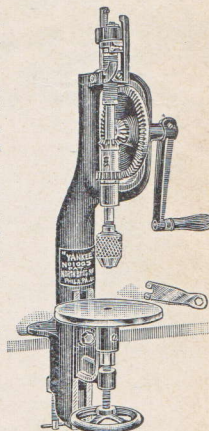
No.	Style Chuck	Lgth. over all Inch	Wt. lbs. Each	
1550	3-jaw	17	5 $\frac{3}{4}$	.....
550	2-jaw	18	5 $\frac{7}{8}$	.....

"YANKEE" Bench Drills

With Automatic Feeds

Extra strong, handy and rapid tools. Excel others in the combined friction and ratchet feed. Friction feed quickly moves drill point to or from work. Ratchet feed for drilling is tripped on when tool touches work. This feed is positive, steady and fixed properly for all size drills from No. 45 up. Breaking small drills as with hand feed is eliminated. Operator has one hand free to hold work. Automatic feed throw-off at top and bottom of travel.

Table has vertical screw adjustment with hand wheel. Bracket also adjustable; both are removable. Speed is changed or spindle locked by simply moving a shifter. Nickel plated steel chuck with 3 hardened jaws for round shanks. Ball bearing, steel spindle; rugged steel pinions. All wearing parts hardened.



	No. 1003 Single Speed	No. 1005 Two Speed
Chuck, holds up to.....	$\frac{1}{2}$ "	$\frac{1}{2}$ "
Traverse of automatic feed.....	1 $\frac{1}{2}$ "	2"
Center of spindle to frame.....	2 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "
Diameter of table.....	4 $\frac{3}{4}$ "	6 $\frac{3}{4}$ "
Adjustment of table in bracket.....	1 $\frac{1}{4}$ "	1 $\frac{3}{4}$ "
Adjustment of bracket.....	2 $\frac{3}{4}$ "	5"
Drill extends above top of bench.....	14 $\frac{1}{2}$ "	22"
Entire length of drill.....	18 $\frac{3}{4}$ "	28"
Net weight.....	10 $\frac{1}{4}$ lbs.	29 lbs.
Gross weight, one in box.....	20 lbs.	57 lbs.

ICE CREAM FREEZERS

The best ice cream freezers in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

The pails are of selected Northern White Pine, with electric welded wire hoops, which are guaranteed not to break or fall off.

The cans are made of heavy tinplate with a stout wire ring reinforcing top edge. They have drawn steel bottoms guaranteed not to fall out or break and do

not leak, being the strongest and most durable freezer can made.

The Automatic Twin Scrapers, by their positive action, insure perfect scraping of frozen particles from side of can as rapidly as formed without injury to can or scrapers.

All inside parts are heavily coated with pure block tin, and outside parts all thoroughly galvanized.

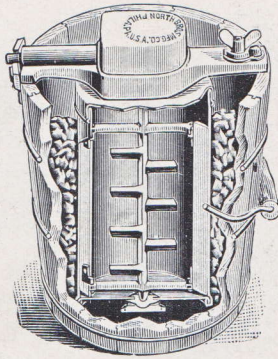
A recipe book with directions for making ice creams, water ices, sherbets and other desserts is packed in each freezer.

"BLIZZARD"



Size Qts.	Wt. Lbs.	Price
1	6	.....
2	8½	.....
3	10	.....
4	12½	.....
6	17	.....
8	21	.....
10	27	.....
12	29	.....
14	32	.....

The Blizzard Freezer is pre-eminently the best low priced freezer in the market. The price is lower because of the simpler construction of the operating mechanism, being single action—that is, the can only revolves. The same can and pail is used as in style opposite. It is convenient and easy running, also economical of ice and salt, and of time.

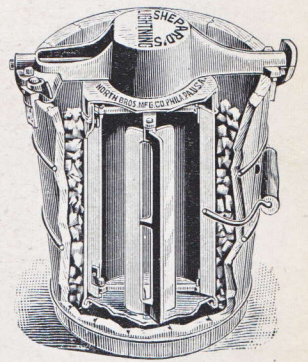


"LIGHTNING"



Size Qts.	Wt. Lbs.	Price
Toy	2	.....
1	7	.....
2	9½	.....
3	11½	.....
4	14	.....
6	18½	.....
8	24	.....
10	30	.....
12	33½	.....
14	43	.....

The Lightning Freezer has the famous wheel dasher, which revolves continuously during the final freezing of the cream and produces the velvety smoothness secured in hand made ice cream by careful and continued paddling. It is especially easy to operate. The top plate is made to swing up as if hinged to the pail, but is detachable.



GEM ICE SHAVES



A simple, handy tool for shaving ice like snow from the block wherever it may be. Works like a plane; lid is hinged. Cast iron frame carefully galvanized all over. Knife of good grade steel, adjustable and set for use. Each in paste-board box. Cases one dozen or three dozen.

No. 1 LIGHTNING ICE CHIPPERS

The only simple, effective and cheap tool for chipping ice for freezers, quickly reducing it to small uniform pieces, size of peanuts. This makes ice cream freeze more quickly and evenly. Does away with the old time bag and hatchet, saving waste of ice, time and temper. Indispensable with every freezer and helps their sale. Are strong and durable; teeth are hardened and tempered steel pins; substantial wood handle; guard is heavily galvanized.

